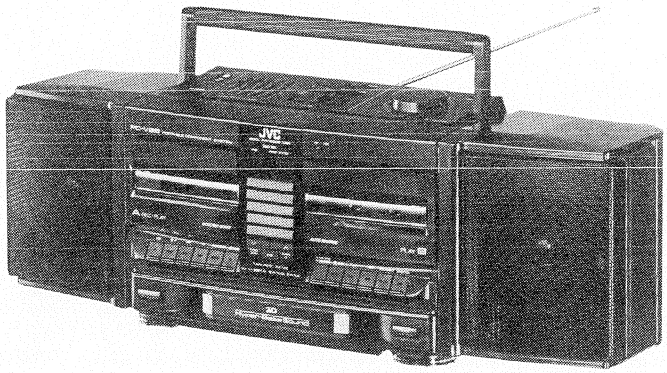
JVC

SERVICE MANUAL

PORTABLE COMPONENT SYSTEM

PC-V88 B/E/G



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ATTACHING/DETACHING THE SPEAKERS

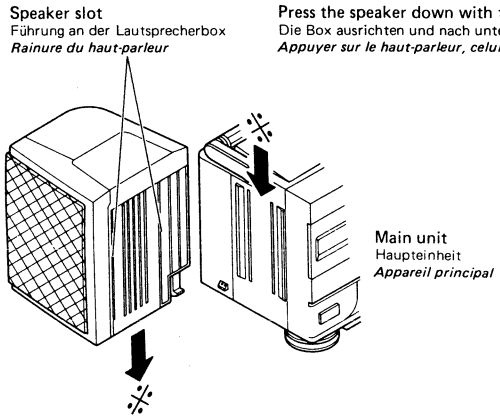
When using the speakers attached to the main unit
Hold with the bottom of the speaker against the top of the main unit and press down on the speaker to attach it.

ANBRINGEN/ABNEHMEN DER LAUTSPRECHER

Anbringen der Lautsprecher an das Hauptgerät
Den Lautsprecher an das Hauptgerät halten und nach unten schieben.

FIXATION/RETRAIT DES HAUT-PARLEURS

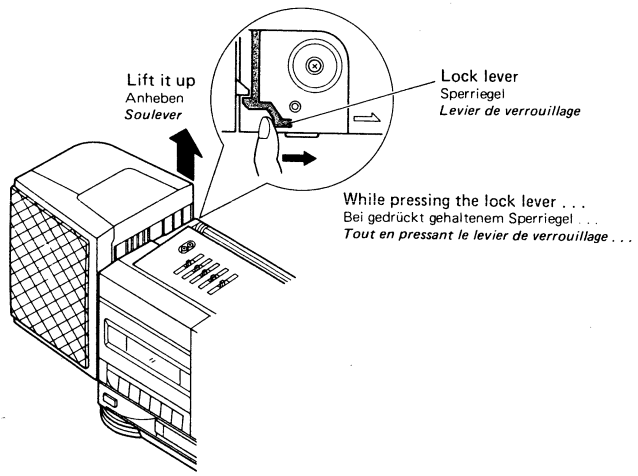
Utilisation des haut-parleurs fixés sur l'appareil principal
Maintenir le dessous du haut-parleur contre le haut du panneau latéral de l'appareil et appuyer sur le haut-parleur pour le fixer.


Speaker slot
Führung an der Lautsprecherbox
Rainure du haut-parleur
Press the speaker down with the speaker and main unit aligned.
Die Box ausrichten und nach unten schieben.
Appuyer sur le haut-parleur, celui-ci et l'appareil étant alignés.
Main unit
Haupteinheit
Appareil principal

When using the speakers detached from the main unit
Lift the speaker up to detach from the main unit by pressing the lock lever at the rear bottom of speaker in the direction of the arrow.
- The right speaker is detached in the same way.
- A better stereo effect can be obtained when the speakers are placed an appropriate distance from the main unit.

Einzelaufstellung der Lautsprecherboxen
Um die Lautsprecherboxen von der Haupteinheit abzunehmen, zunächst den Riegel an der unteren Rückseitenkante der Box in Pfeilrichtung drücken und dann die Box nach oben abziehen.
- Die rechte Lautsprecherbox kann auf die gleiche Weise abgenommen werden.
- Der Stereoeffekt kann verbessert werden, wenn die Lautsprecherboxen in geeignetem Abstand von der Haupteinheit aufgestellt werden.

Utilisation des haut-parleurs détachés de l'appareil principal
Soulever le haut-parleur pour le détacher de l'appareil principal en pressant le levier de verrouillage en bas de l'arrière du haut-parleur, dans la direction de la flèche.
- *Le haut-parleur de droite se détache de la même manière.*
- *Un meilleur effet stéréo peut être obtenu quand les haut-parleurs sont placés à une certaine distance de l'appareil.*


Lift it up
Anheben
Soulever
Lock lever
Sperriegel
Levier de verrouillage
While pressing the lock lever . . .
Bei gedrückt gehaltenem Sperriegel . . .
Tout en pressant le levier de verrouillage . . .

Note:
Disconnect the speaker cords prior to attaching and detaching the speakers when the speaker cords have been connected to the main unit.

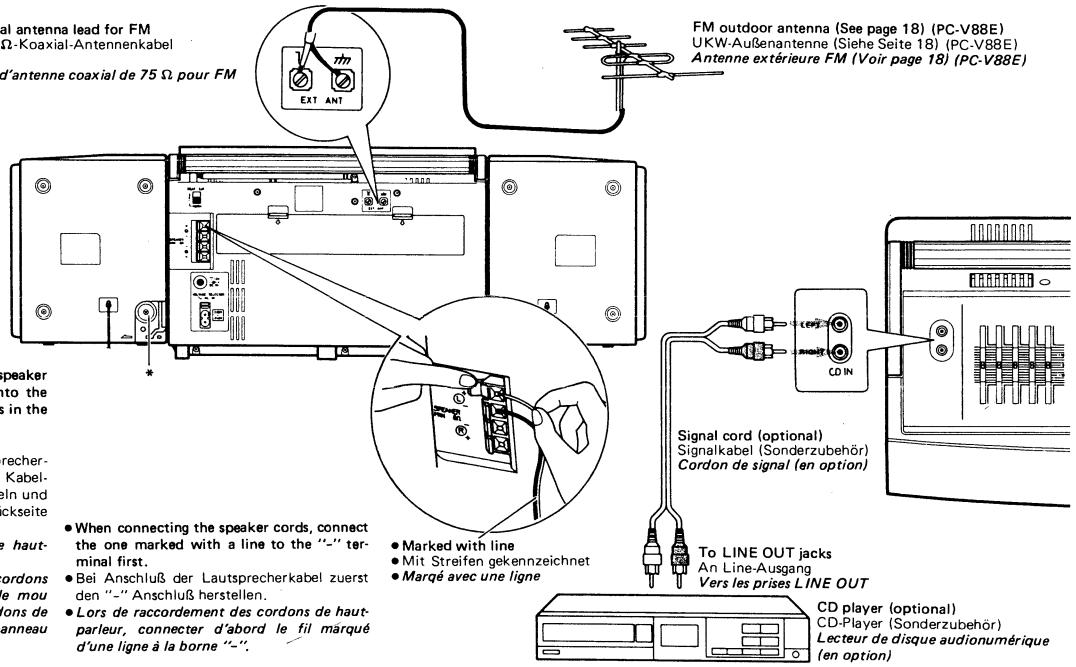
Hinweis:
Bei an der Haupteinheit angeschlossenen Lautsprecherkabeln diese von den Lautsprecherboxen entfernen, bevor die Boxen abgenommen oder wiederangebracht werden.

Remarque:
Débrancher les cordons des haut-parleurs avant de les fixer ou détacher quand les cordons ont été fixés à l'appareil principal.

CONNECTIONS

- Do not switch the power on until all the connections are completed.

Use a 75 Ω coaxial antenna lead for FM
Für UKW ein 75-Ω-Koaxial-Antennenkabel verwenden.
Utiliser un câble d'antenne coaxial de 75 Ω pour FM



FM outdoor antenna (See page 18) (PC-V88E)
UKW-Außenantenne (Siehe Seite 18) (PC-V88E)
Antenne extérieure FM (Voir page 18) (PC-V88E)

Signal cord (optional)
Signalkabel (Sonderzubehör)
Cordon de signal (en option)

* Space for speaker cords
After connecting the speaker cords, bundle any slack into the space for the speaker cords in the rear panel.
* Lautsprecherkabelfach
Nach Anschluß der Lautsprecherkabel bei vorhandenem Kabeldurchhang das Kabel bündeln und im Kabelfach an der Rückseite unterbringen.
* *Place pour les cordons de haut-parleur*
Après raccordement des cordons de haut-parleur, fourrer le mou dans la place pour les cordons de htut-parleur dans le panneau arrière.

- When connecting the speaker cords, connect the one marked with a line to the "–" terminal first.
- Bei Anschluß der Lautsprecherkabel zuerst den "–" Anschluß herstellen.
- *Lors de raccordement des cordons de haut-parleur, connecter d'abord le fil marqué d'une ligne à la borne "–".*

- Marked with line
- Mit Streifen gekennzeichnet
- *Marqé avec une ligne*

To LINE OUT jacks
An Line-Ausgang
Vers les prises LINE OUT

CD player (optional)
CD-Player (Sonderzubehör)
Lecteur de disque audionumérique (en option)

Notes:
1. Connect the connection cords, etc. being sure not to confuse channels or polarities. The wrong connection will degrade the sound quality and stereo effect.
2. Be sure to connect the connection cords, etc. correctly. Otherwise, there will be no sound or there will be noise.

ANSCHLÜSSE

- Schalten Sie nicht ein, bevor alle Anschlüsse komplett sind.

Hinweise:
1. Die Anschlußkabel unter Beachtung der Kanäle oder Polarität anschließen. Bei Anschluß über Kreuz werden Tonqualität und Stereoeffekt beeinträchtigt.
2. Alle Anschlüsse korrekt durchführen. Andernfalls erfolgt keine oder eine nicht einwandfreie Tonwiedergabe.

RACCORDEMENTS

- *Ne pas mettre l'appareil sous tension tant que toutes les connexions ne sont pas effectuées.*

Remarques:
1. *Raccorder les câbles de raccordements etc. en s'assurant de ne pas mélanger les canaux ou les polarités. Des raccordements erronés dégraderont la qualité sonore et l'effet stéréo.*
2. *Bien raccorder les câbles etc. correctement, sinon il n'y aura pas de son ou le son sera accompagné de bruit.*

NAMES OF PARTS AND THEIR FUNCTIONS

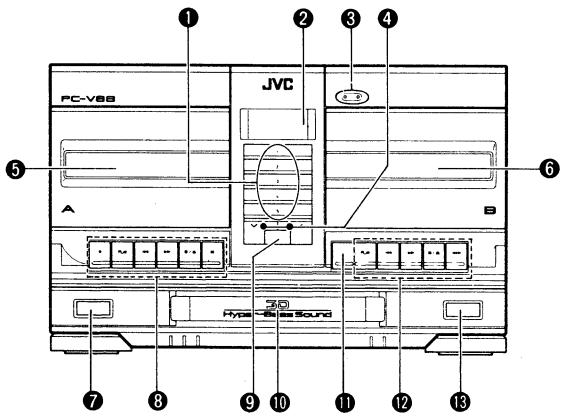
- **Front panel**

BEZEICHNUNG DER TEILE UND IHRE FUNCTIONEN

- **Frontseite**

NOMENCLATURE DES PIECES ET LEURS FONCTIONS

- **Panneau avant**



❶ Preset station buttons
❷ Display window
BAND indicator (FM1-FM2-MW-LW)
Radio frequency display
PRESET STATION indicator
STEREO (FM stereo) indicator
❸ Indicators
- Reverse direction (REV)
- Forward direction (FWD)

❹ TUNING control
UP ^ frequency
DOWN v frequency
❺ Cassette holder (Deck A)
❻ Cassette holder (Deck B)

❶ Stationsspeichertasten
❷ Displayfeld
Empfangsbandanzeige (FM1, FM2, MW, LW) (BAND)
Radiofrequenzanzeige
Senderspeicheranzeige (PRESET STATION)
Stereoanzeige (Für UKW) (STEREO)
❸ Anzeigen
- Rückwärtsrichtung (REV)
- Vorwärtsrichtung (FWD)

❹ Abstimmtasten (TUNING)
In Richtung höherer Ferquenzen ^ (UP)
In Richtung niedrigere Frequenzen v (DOWN)
❺ Cassettenhalter (Deck A)
❻ Cassettenhalter (Deck B)

❶ Touches de stations préréglées
❷ Fenêtre d'affichage
Indicateur de gamme (BAND) (FM1-FM2-PO-GO)
Affichage de la fréquence radio
Indicateur de station préréglée (PRESET STATION)
Indicateur FM stéréo (STEREO)
❸ Indicateurs
- *Direction inversée (REV)*
- *Direction avant (FWD)*

❹ Commande de syntonisation (TUNING)
Fréquence ascendante ^ (UP)
Fréquence descendant v (DOWN)
❺ Porte cassette (platine A)
❻ Porte cassette (platine B)

❼ 3D (Hyper-Bass Sound System) switch
▬ ON:
Set to this position to listen to the hyper-bass sound.
▙ OFF:
Set to this position when the hyper-bass sound is not required.

❽ Cassette operation buttons (Deck A)
○REC:
Press this button for recording.
▶ PLAY:
Press to play the tape.
◀◀ REW:
Press to rewind the tape rapidly.
▶▶ FF:
Press to wind the tape forward rapidly.
■ /⏏STOP/EJECT:
Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.
❚❚ PAUSE:
Press to stop the tape temporarily. Press again to release the pause mode.

❾ BAND button

❿ 3D indicator

⓫ REVERSE MODE button
▬ ⮌: Full playback
▙ ⟲: Continuous playback

⓬ Cassette operation buttons (Deck B)
PLAY:
Press to play the tape.
◀◀ (fast wind) button:
Press to fast wind the tape from right to left.
▶▶ (fast wind) button:
Press to fast wind the tape from left to right.
■ /⏏STOP/EJECT:
Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.
◀❙▶ **DIRECTION button:**
Press to change the direction of tape travel.

⓭ POWER switch
▬ ON
▙ STANDBY

❼ 3D-Schalter (Hyper-Bass Sound System)
▬ ON:
Klangwiedergabe mit dem Hyper-Bass Sound.
▙ OFF:
Klangwiedergabe ohne das Hyper-Bass Sound.

❽ Cassettenbetrieb-Funktionstasten (Deck A)
○ REC:
Drücken, um auf Aufnahme zu schalten.
▶ PLAY:
Drücken, um auf Wiedergabe zu schalten.
◀◀ REW:
Drücken, um auf Zurückspulen zu schalten.
▶▶ FF:
Drücken, um auf Schnell-Vorspulen zu schalten.
■ /⏏STOP/EJECT:
Drücken, um auf Bandstop zu schalten. Bei Bandstop betätigen, um die Cassette auszuwerfen.
❚❚ PAUSE:
Drücken, um den Bandtransport kurzzeitig zu unterbrechen. Zur Pauseabschaltung nochmals betätigen.

❾ Empfangsbandtaste (BAND)

❿ 3D-Anzeige (3D)

⓫ Umkehr-Betriebsarttaste (REVERSE MODE)
▬ ⮌: Beide Seiten
▙ ⟲: Kontinuierliche Wiedergabe

⓬ Cassettenbetrieb-Funktionstasten (Deck B)
PLAY:
Drücken, um auf Wiedergabe zu schalten.
◀◀ Umspultaste:
Für schnelles Bandumspulen von rechts nach links.
▶▶ Umspultaste:
Für schnelles Bandumspulen von links nach rechts.
■ /⏏STOP/EJECT:
Drücken, um auf Bandstop zu schalten. Bei Bandstop betätigen, um die Cassette auszuwerfen.
◀❙▶ **Richtungstaste (DIRECTION):**
Betätigen, um die Bandlaufrichtung umzuschalten.

⓭ Netzschalter (POWER)
▬ ON
▙ STANDBY

❼ Commutateur 3D (Système sonore hyper-grave)
▬ *ON:*
Régler sur cette position pour écouter le son hyper grave.
▙ *OFF:*
Régler sur cette position quand le son huper-grave n'est pas nécessaire.

❽ Touches de fonctionnement de la cassette (Platine A)
○ *REC (enregistrement):*
Appuyer sur cette touche pour enregistrer.
▶ *PLAY (lecture):*
Appuyer pour lire la bande.
◀◀ *REW (réembobinage):*
Appuyer pour réembobiner rapidement la bande.
▶▶ *FF (avance rapide):*
Appuyer pour faire défiler rapidement la bande en avant.
■ /⏏*STOP/EJECT (arrêt/éjection):*
Appuyer pour arrêter la bande. Une pression sur cette touche après l'arrêt de la bande ouvre le porte cassette.
❚❚ *PAUSE (pause):*
Appuyer pour arrêter momentanément la bande. Appuyer à nouveau pour sortir du mode de pause.

❾ Touche de gamme (BAND)

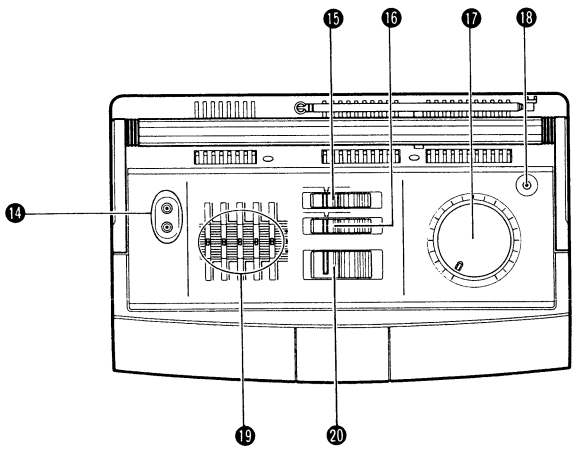
❿ Indicateur 3D (3D)

⓫ Touche de mode inversé (REVERSE MODE)
▬ ⮌: *Lecture complet*
▙ ⟲: *Lecture continue*

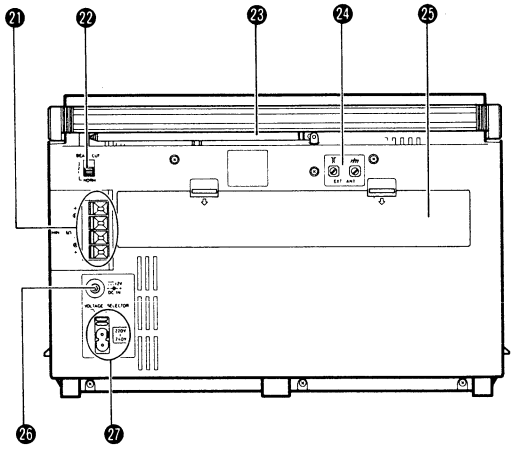
⓬ Touches de fonctionnement de la cassette (Platine B)
PLAY (lecture):
Appuyer pour lire la bande.
◀◀ *Touche d'enroulement rapide:*
Appuyer pour faire défiler la bande rapidement de la droite vers la gauche.
▶▶ *Touche d'enroulement rapide:*
Appuyer pour bobiner la bande rapidement de la gauche vers la droite.
■ /⏏*STOP/EJECT (arrêt/éjection):*
Appuyer pour arrêter la bande. Une pression sur cette touche après l'arrêt de la bande ouvre le porte cassette.
◀❙▶ **Touche de sens (DIRECTION):**
Appuyer pour changer le sens de défilement de la bande.

⓭ Interrupteur d'alimentation (POWER)
▬ *ON*
▙ *STANDBY*

- **Top panel**
- **Oberseite**
- **Panneau supérieur**



- **Rear panel**
- **Rückplatte**
- **Panneau arrière**



⓮ CD IN jacks
Connect a CD player.

⓯ DOLBY NR switch
Set to ON when recording or playing back tapes using the noise recording system.

⓮ CD-Eingangsbuchsen (CD IN)
Für Anschluß eines CD-Players (oder eines Plattenspielers mit Phonoentzerrer).

⓯ Dolby-Rauschunterdrückungsschalter (DOLBY NR)
In Position ON wird mit Dolby-Rauschunterdrückung aufgenommen bzw. wiedergegeben.

⓮ Prises d'entrée CD (CD IN)
Raccorder un lecteur de disque audionumérique. (ou tourne-disque avec égaliseur phono)

⓯ Commutateur de réduction de bruit Dolby (DOLBY NR)
Régler sur ON pour l'enregistrement ou la lecture de bandes utilisant le système de réduction de bruit.

⑯ **TAPE (PLAY)/FM MODE switch**
TAPE (PLAY) switch
Set this switch according to the type of tape to be used.
METAL/CrO_2: (playback only)
Set to this position to listen to a metal (type IV) or chrome (type II) tape.
NORMAL:
Set to this position to listen to a normal (type I) tape.
FM MODE switch
STEREO:
Set to this position when listening to or recording an FM stereo broadcast.
MONO:
Set to this position when FM stereo reception is obscured by noise.
⑰ **VOLUME control**
⑱ **Headphones jack (PHONES) (3.5 mm dia. stereo mini)**
Connect headphones (impedance 16 Ω – 1 kΩ) to this jack. The speakers are automatically switched off with the headphones connected.
⑲ **5-BAND GRAPHIC EQUALIZER controls**
⑳ **FUNCTION switch**
TAPE / DUBBING — NORMAL SPEED / HIGH SPEED
Set to NORMAL SPEED when listening to a cassette or dubbing at normal speed.
Set to HIGH SPEED when dubbing at high-speed.
TUNER
Set to this position when listening to or recording from the radio.
CD IN
Set to this position when listening to or recording from the source connected to the CD IN jacks.
㉑ **SPEAKER terminals**
Connect the provided speakers to these terminals.
㉒ **BEAT CUT switch**
See page 22.
㉓ **Telescopic antenna for FM reception**
㉔ **EXT ANT terminal for FM (PC-V88E only)**
㉕ **Battery compartment cover**
㉖ **12 V DC IN jack (⊖-⊙-⊕) (PC-V88E only)**
㉗ **VOLTAGE SELECTOR/AC input jack (AC IN)**

⑯ **Bandwiedergabe/UKW-Betriebsart-Schalter(TAPE(PLAY)/FM MODE)**
Bandwiedergabeschalter (TAPE (PLAY))
Entsprechend der zu verwendenden Bandsorte einstellen:
METAL/CrO_2: (nur für Wiedergabe)
Position für die Wiedergabe von Metallband (Type IV) oder Chromband (Type II).
NORMAL:
Position für die Wiedergabe von Normalband (Type I).
UKW-Betriebsart-Schalter (FM MODE)
STEREO:
Position für Empfang oder Aufnahme einer UKW-Stereosendung.
MONO:
Position für beeinträchtigten UKW-Stereoempfang.
⑰ **Lautstärkeregler (VOLUME)**
⑱ **Kopfhörerbuchse (PHONES) (3,5-mm-Stereo-Ministecker)**
Für Anschluß eines Kopfhörers (zulässige Impedanz: 16 Ω – 1 kΩ) bei Kopfhöreranschluß sind die Lautsprecher automatisch abgeschaltet.
⑲ **Schieberegler für 5-Band-Graphic Equalizer (5-BAND GRAPHIC EQUALIZER)**
⑳ **Funktionsschalter (FUNCTION)**
TAPE / DUBBING — NORMAL SPEED / HIGH SPEED
Auf NORMAL SPEED schalten, um Cassettenwiedergabe oder um normales Überspielen durchzuführen.
Auf HIGH SPEED schalten, um Überspielen in hoher Geschwindigkeit durchzuführen.
TUNER
Position für Radioempfang oder Aufnahme vom Radioteil.
CD IN
Position für Abspielen oder Aufnahme von der am CD IN-Buchse angeschlossenen Signalquelle.
㉑ **Lautsprecherklemmen (SPEAKER)**
Hier die mitgelieferten Lautsprecher anschließen.
㉒ **Interferenzenschalter (BEAT CUT)**
Siehe Seite 22.
㉓ **UKW-Teleskopantenne**
㉔ **Anschluß für externe UKW–Antenne (EXT ANT) (nur PC-V88E)**
㉕ **Batteriefachdeckel**
㉖ **Gleichspannungseingang (DC IN) 12 V (⊖-⊙-⊕) (nur PC-V88E)**
㉗ **Spannungswähler (VOLTAGE SELECTOR)/Netzeingang (AC IN)**

⑯ **Sélecteur de bande (en lecture) (TAPE (PLAY))/mode FM (FM MODE)**
Sélecteur de bande (en lecture) (TAPE (PLAY))
Régler ce sélecteur en fonction du type de bande à utiliser.
METAL/CrO_2: *(lecture seulement)*
Régler dans cette positon pour écouter une bande au métal (type IV) ou chrome (type II).
NORMAL:
Régler dans cette position pour écouter une bande normale (type I).
Commutateur de mode FM (FM MODE)
STEREO:
Placer sur cette posicion en recevant des émissions FM stéréo.
MONO:
Placer sur cette position quand la réception stéréo FM est affectée de bruit.
⑰ **Commande de volume (VOLUME)**
⑱ **Prise de casque d'écoute (PHONES) (minifiche stéréo de 3,5 mm de diamètre)**
Raccorder un casque d'écoute (impédance 16 Ω à 1 kΩ) à cette prise. Les haut-parleurs sont automatiquement coupés quand un casque d'écoute est raccordé.
⑲ **Commandes d'égaliseur graphique à 5 gammes (5-BAND GRAPHIC EQUALIZER)**
⑳ **Commutateur de fontion (FUNCTION)**
TAPE / DUBBING — *NORMAL SPEED* / *HIGH SPEED*
Régler sur NORMAL SPEED pour écouter une cassette ou copier à vitesse normale.
Régler sur HIGH SPEED pour copier à grande vitesse.
TUNER
Régler sur cette position en écoutant ou en enregistrant à partir de la radio.
CD IN
Placer dans cette position en écoutant ou en enregistrant à partir de la source raccordée aux prises CD IN.
㉑ **Bornes de haut-parleurs (SPEAKER)**
Raccorder les enceintes acoustiques fournies à ces bornes.
㉒ **Commutateur coupe-battements (BEAT CUT)**
Voir page 22.
㉓ **Antenne télescopique pour la réception FM**
㉔ **Born de antenne externe pour FM (EXT ANT) (PC-V88E seulement)**
㉕ **Couvercle du compartiment des piles**
㉖ **Prise d'entrée CC 12 V (DC IN) (⊖-⊙-⊕) (PC-V88E seulement)**
㉗ **Sélecteur de tension (VOLTAGE SELECTOR)/Prise d'entrée CA (AC IN)**

CASSETTE PLAYBACK
(The example shows deck **B**.)

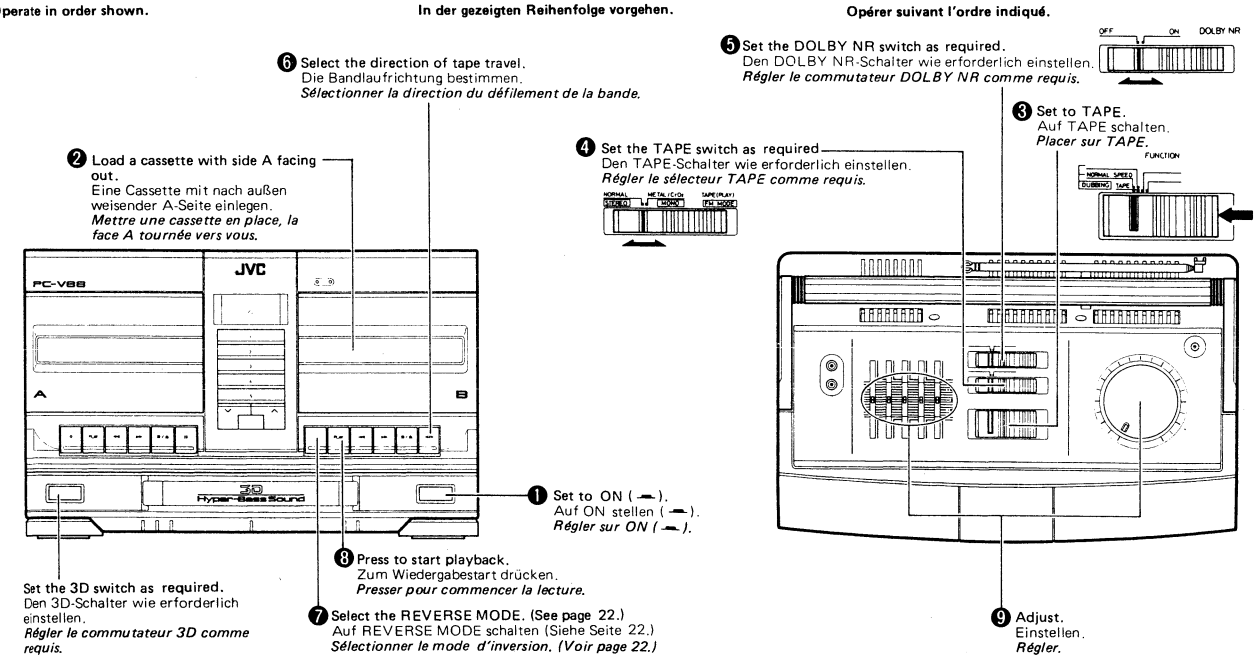
Operate in order shown.

CASSETTEN-WIEDERGABE
(Das Beispiel zeigt Deck **B**.)

In der gezeigten Reihenfolge vorgehen.

LECTURE
(L'exemple est pour la platine **B**.*)*

Opérer suivant l'ordre indiqué.


❻ Select the direction of tape travel.
Die Bandlaufrichtung bestimmen.
Sélectionner la direction du défilement de la bande.
❷ Load a cassette with side A facing out.
Eine Cassette mit nach außen weisender A-Seite einlegen.
Mettre une cassette en place, la face A tournée vers vous.
❺ Set the DOLBY NR switch as required.
Den DOLBY NR-Schalter wie erforderlich einstellen.
Régler le commutateur DOLBY NR comme requis.
❸ Set to TAPE.
Auf TAPE schalten.
Placer sur TAPE.
❹ Set the TAPE switch as required
Den TAPE-Schalter wie erforderlich einstellen.
Régler le sélecteur TAPE comme requis.
❶ Set to ON (▬).
Auf ON stellen (▬).
Régler sur ON (▬).
❽ Press to start playback.
Zum Wiedergabestart drücken.
Presser pour commencer la lecture.
❼ Select the REVERSE MODE. (See page 22.)
Auf REVERSE MODE schalten (Siehe Seite 22.)
Sélectionner le mode d'inversion. (Voir page 22.)
Set the 3D switch as required.
Den 3D-Schalter wie erforderlich einstellen.
Régler le commutateur 3D comme requis.
❾ Adjust.
Einstellen.
Régler.

- **Playback in deck A**
The previous procedures ❹, ❺ and ❽ also apply to deck **A** when a cassette is loaded in deck **A**. (Deck **A** does not has an auto reverse function, only one side will be played back.) When decks **A** and **B** are simultaneously set to the play mode, only the playback sound of deck **B** is heard.

- **Wiedergabe nur von Deck A**
Die vorherigen Bedienschritte ❹, ❺ und ❽ gelten auch für Deck **A** (mit eingelegter Cassette). (Deck **A** besitzt keine Autoreverse-Funktion, es wird nur eine Seite wiedergegeben.) Wenn Deck **A** und **B** auf Wiedergabe geschaltet sind, erfolgt nur die Tonwiedergabe von Deck **B**.

- **Lecture sur la platine A**
La procédure précédente de ❹, ❺ *et* ❽ *s'applique également à la platine* **A** *quand une cassette est mise en place dans la platine* **A**. *La platine* **A** *n'a pas de fonction d'inversion automatique, une face seulement sera lue.) Quand les platines* **A** *et* **B** *sont réglées simultanément en mode de lecture, seul le son de lecture de la platine* **B** *est entendu.*

RELAY PLAYBACK
(From deck **B** to deck **A**)

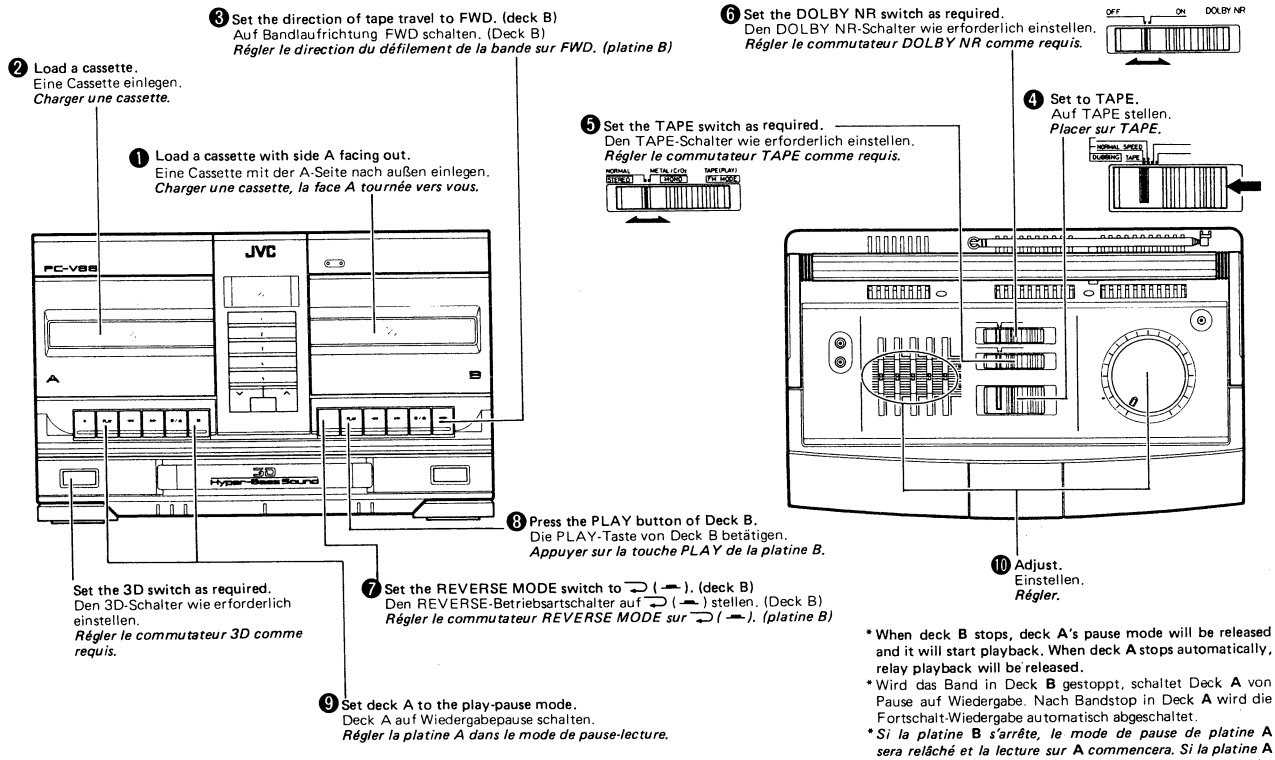
Operate in order shown.

FORTSCHALT-WIEDERGABE
(Von Deck **B** zu Deck **A**)

In der gezeigten Reihenfolge vorgehen.

RELAIS DE LECTURE
(De la platine **B** *vers la platine* **A***)*

Opérer suivant l'ordre indiqué.


❸ Set the direction of tape travel to FWD. (deck B)
Auf Bandlaufrichtung FWD schalten. (Deck B)
Régler le direction du défilement de la bande sur FWD. (platine B)
❷ Load a cassette.
Eine Cassette einlegen.
Charger une cassette.
❶ Load a cassette with side A facing out.
Eine Cassette mit der A-Seite nach außen einlegen.
Charger une cassette, la face A tournée vers vous.
❻ Set the DOLBY NR switch as required.
Den DOLBY NR-Schalter wie erforderlich einstellen.
Régler le commutateur DOLBY NR comme requis.
OFF
ON
DOLBY NR
❹ Set to TAPE.
Auf TAPE stellen.
Placer sur TAPE.
❺ Set the TAPE switch as required.
Den TAPE-Schalter wie erforderlich einstellen.
Régler le commutateur TAPE comme requis.
JVC
PC-V88
A
B
❽ Press the PLAY button of Deck B.
Die PLAY-Taste von Deck B betätigen.
Appuyer sur la touche PLAY de la platine B.
❿ Adjust.
Einstellen.
Régler.
Set the 3D switch as required.
Den 3D-Schalter wie erforderlich einstellen.
Régler le commutateur 3D comme requis.
❼ Set the REVERSE MODE switch to ⇄ (➖). (deck B)
Den REVERSE-Betriebsartschalter auf ⇄ (➖) stellen. (Deck B)
Régler le commutateur REVERSE MODE sur ⇄ (➖). (platine B)
❾ Set deck A to the play-pause mode.
Deck A auf Wiedergabepause schalten.
Régler la platine A dans le mode de pause-lecture.

* When deck **B** stops, deck **A**'s pause mode will be released and it will start playback. When deck **A** stops automatically, relay playback will be released.

* Wird das Band in Deck **B** gestoppt, schaltet Deck **A** von Pause auf Wiedergabe. Nach Bandstop in Deck **A** wird die Fortschalt-Wiedergabe automatisch abgeschaltet.

* *Si la platine* **B** *s'arrête, le mode de pause de platine* **A** *sera relâché et la lecture sur* **A** *commencera. Si la platine* **A** *s'arrêter automatiquement, le relais de lecture sera relâché.*

Notes:
1. Use the same type of tape in decks **A** and **B**.
2. If the REVERSE MODE of deck **B** is set to ⇄ (➖), relay playback cannot be performed. (Continuous playback is performed in deck **B**.)

Hinweise:
1. Für Deck **A** und **B** die gleiche Bandsorte verwenden **B**.
2. Bei Position ⇄ (➖) des REVERSE MODE-Schalters für Deck **B** kann keine Fortschalt-Wiedergabe erfolgen. (Deck **B** wird auf kontinuierliche Wiedergabe geschaltet.)

Remarques:
1. *Utiliser le même type de bande dans les platines* **A** *et* **B**.
2. *Si le mode d'inversion de la platine* **B** *est réglé sur* ⇄ (➖), *la lecture par relais ne peut pas être effectuée. (La lecture continue est effectuée sur la platine* **B**.*)*

RADIO RECEPTION

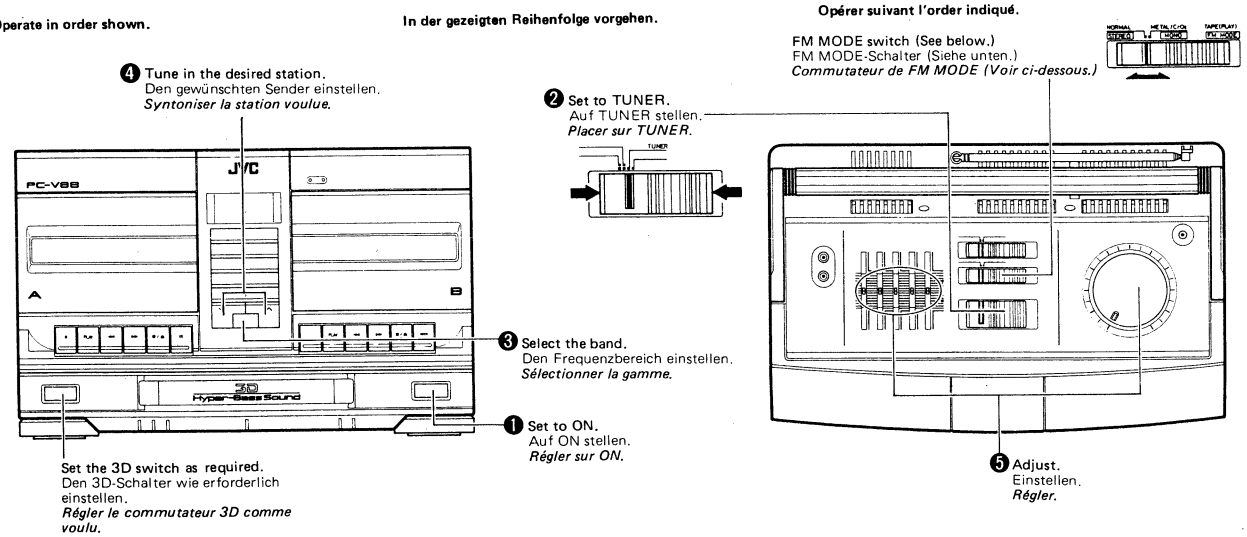
Operate in order shown.

RADIO-EMPFANG

In der gezeigten Reihenfolge vorgehen.

RECEPTION DE LA RADIO

Opérer suivant l'order indiqué.



FM MODE switch
STEREO:
Set to this position when listening to or recording an FM stereo broadcast.
MONO:
Set to this position when FM stereo reception is obscured by noise.

UKW-Betriebsart-Schalter (FM MODE)
STEREO:
Position für Empfang oder Aufnahme einer UKW-Stereosendung.
MONO:
Position für beeinträchtigten UKW-Stereoempfang.

Selecteur de mode FM (FM MODE)
STEREO:
Placer sur cette position en recevant des émissions FM stéréo.
MONO:
Placer sur cette position quand la réception stéréo FM est affectée de bruit.

Seek tuning
By pressing the ∧ or ∨ button for more than 1 second, the unit enters the search mode and tunes to the adjacent station broadcasting at a higher or lower frequency.

Manual tuning
By pressing the Tuning button, you can move up and down the frequency band. You can step through the frequency in 50 kHz units for FM, 9 kHz units for MW and 1 kHz units for LW.

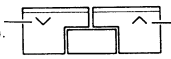
Abstimmung mit der Senderfortschalttaste
Durch Betätigen von Taste ∧ oder ∨ für mehr als 1 Sekunde wird auf Suchlauf geschaltet und es kann auf den nächsten Sender höhere oder niedrigerer Frequenz abgestimmt werden.

Manuelle Abstimmung
Mit der Abstimmtaste kann der Wellenbereich in beiden Richtungen abgetastet werden. Hierbei wechselt die Frequenz in 50-kHz-Schritten bei UKW-Empfang, 9 kHz-Schritten bei MW-Empfang und 1-kHz-Schritten bei LW-Empfang.

Syntonisation par recherche
En appuyant sur la touche ∧ ou ∨ pendant plus d'une seconde, l'appareil passe en mode de recherche et se syntonise sur la station la plus proche diffusant sur une fréquence plus élevée ou plus basse.

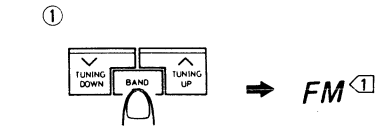
Syntonisation manuelle
En appuyant sur la touche de syntonisation, vous pouvez décaler vers le haut ou le bas la gamme de fréquence. Vous pouvez changer la fréquence par unités de 50 kHz en FM, de 9 kHz en PO et de 1 kHz en GO.

Press to move to lower frequencies.
Für niedrigere Frequenzen betätigen.
Presser pour diminuer la fréquence.



Press to move to higher frequencies.
Für höhere Frequenzen betätigen.
Presser pour augmenter la fréquence.

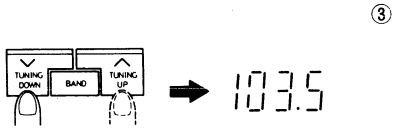
Presetting stations
Five stations in each band (FM1, FM2, MW and LW) can be preset as follows:
- **Example (when presetting Preset button "3" to FM station at 103.5 MHz)**



① Select the FM1 band using the BAND button.
② Tune to the desired station.
③ Press preset button "3" for more than 2 sec. (When "3" flashes in the Preset station display, the station is preset.)
- Repeat the above procedure for each of the other four stations using a different Preset button each time.
- Follow the above procedure for the other bands (FM2, MW and LW).

Note:
When the unit is used more than 30 minutes after being preset, the preset station memory will be held for approx. 48 hours after unplugging the power cord or removing the batteries. Presetting is required again when the preset stations are cancelled.

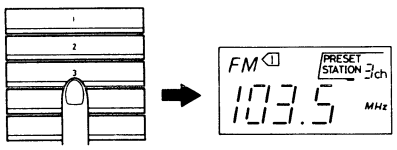
Belegung der Senderspeicher
Für jeden Wellenbereich können jeweils 5 Sender (FM1, FM2, MW und LW) wie folgt gespeichert werden.
- **Beispiel (Belegung von Stationsspeichertaste "3" mit UKW-Sender bei 103,5 MHz Senderfrequenz)**



① Mit der Wellenbereichstaste (BAND) auf FM1 schalten.
② Den gewünschten Sender einstellen.
③ Stationsspeichertaste "3" für mehr als 2 Sekunden gedrückt halten. (Wenn "3" in der Senderspeicheranzeige blinkt, ist der Senderspeicher belegt.)
- Die obigen Bedienschritte für die restlichen vier Stationstasten wiederholen.
- Für FM2, MW und LW auf die gleiche Weise die Stationstasten belegen.

Hinweis:
Wenn dieses Gerät nach der Senderspeicherbelegung für über 30 Minuten eingeschaltet ist, werden die Senderspeicher für ca. 48 Stunden beibehalten, auch wenn das Netzkabel abgezogen ist, bzw. wenn die Batterien entnommen werden. Nach Löschung der Senderspeicher ist eine erneute Belegung erforderlich.

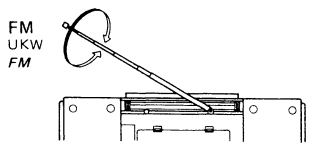
Préréglage des stations
Cinq stations de chaque gamme (FM1, FM2, PO et GO) peuvent être préréglées comme suit:
- **Exemple (pour prérégler la touche de préréglage "3" sur une station FM à 103,5 MHz)**



① *Sélectionner la gamme FM1 en utilisant la touche BAND.*
② *Syntoniser la station voulue.*
③ *Appuyer sur la touche de préréglage "3" pendant plus de 2 secondes. (Quand "3" clignote dans l'affichage de stations préréglées, la station est préréglée.)*
- *Répéter le procédé ci-dessus pour chacune des quatres autres stations en utilisant une touche de préréglage différente à chaque fois.*
- *Suivre le procédé ci-dessus pour les autres gammes (FM2, PO et GO).*

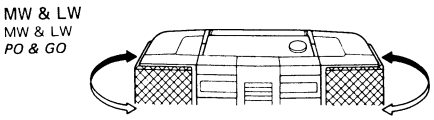
Remarque:
Si l'appareil est utilisé plus de 30 minutes après être préréglé, la mémoire de station préréglée sera maintenue pour environ 48 heures après débranchement du cordon secteur ou retrait des piles. Il faut refaire le préréglage lorsque les stations préréglées sont effacées.

Using the antennas



Note:
The built-in ferrite core antenna can pick up interference tones from television receivers in the neighborhood and thereby disturb MW and LW reception.

Verwendung der Antennen



Hinweis:
Die eingebaute Ferritkernantenne nimmt Interferenztöne von Fernsehgeräten der Umgebung auf und stört dadurch den MW und LW-Empfang.

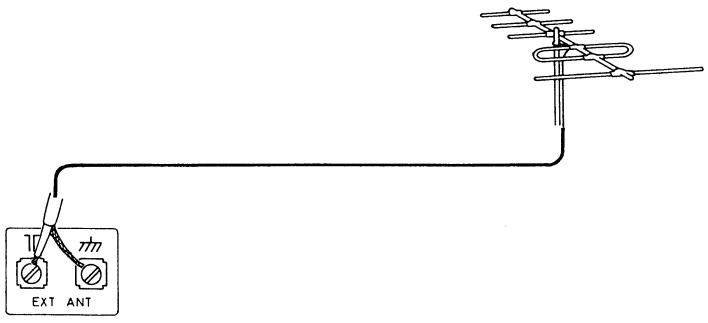
Utilisation des antennes

Remarque:
L'antenne à noyau de ferrite incorporée peut capter les interférences provenant d'un téléviseur situé dans le voisinage et provoquer, par conséquent, une mauvaise réception des émissions PO et GO.

External antenna for FM (PC-V88E only)
Weak signals may result in noisy reception of FM broadcast. Should this condition occur, connect an external FM antenna available on the market. When an external antenna is connected, retract the telescopic antenna.

Außenantenne für UKW (nur PC-V88E)
Schwache Empfangssignale führen zu Rauschstörungen bei Empfang von UKW-Sendern. In enem solchen Fall empfiehlt sich der Anschluß einer in jedem Fachgeschäft enhältlichen UKW-Außenantenne. Beim Anschluß der Außenantenne die Teleskopantenne wieder einziehen.

Antenne externe pour FM (PC-V88E seulement)
Des signaux faibles risquent de provoquer une réception parasitée des émission en FM. Si ceci se produit, raccorder une antenne externe pour FM disponible dans le commerce. Quand une antenne extérieure est raccordée, replier l'antenne téléscopique.



RECORDING (Deck A)

- In recording, the ALC circuit automatically optimizes the recording level and adjustment of the recording level is unnecessary.

Operate in order shown.

AUFNAHME (Deck A)

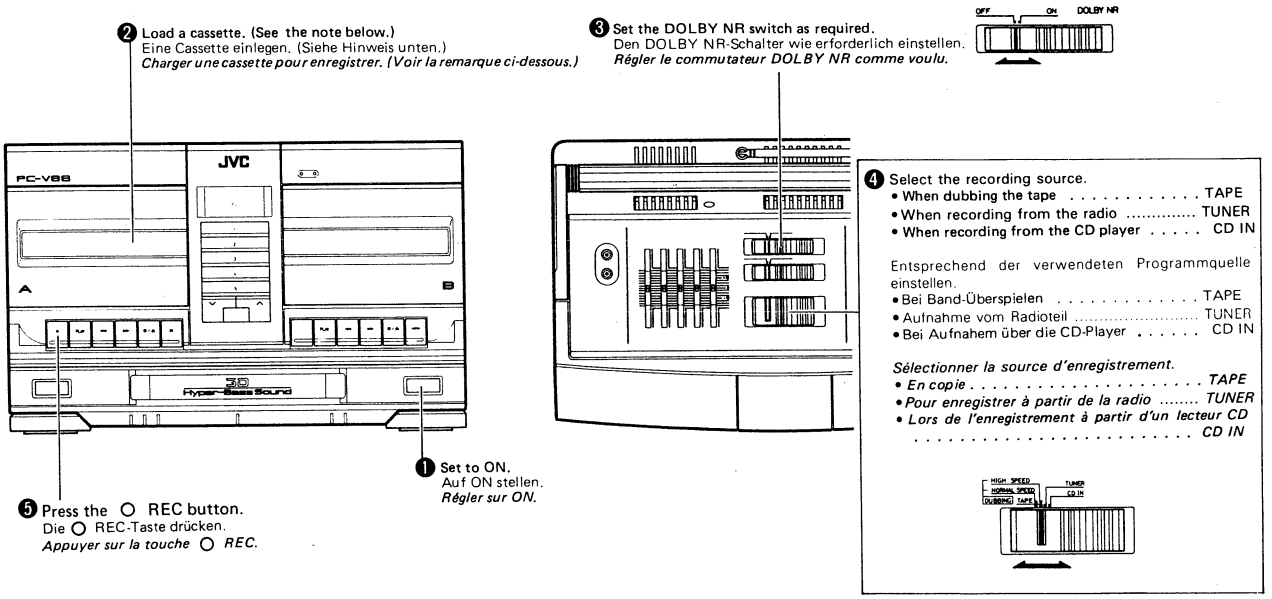
- Bei Aufnahme sorgt die Aufnahmeautomatik für eine optimale Pegelaussteuerung. Eine manuelle Aussteuerung ist nicht erforderlich.

In der gezeigten Reihenfolge vorgehen.

ENREGISTREMENT (Platine A)

- *En enregistrement, le circuit ALC incorporé optimise le niveau d'enregistrement et le réglage de ce niveau n'est pas nécessaire.*

Opérer suivant l'ordre indiqué.


❷ Load a cassette. (See the note below.)
Eine Cassette einlegen. (Siehe Hinweis unten.)
Charger une cassette pour enregistrer. (Voir la remarque ci-dessous.)
❸ Set the DOLBY NR switch as required.
Den DOLBY NR-Schalter wie erforderlich einstellen.
Régler le commutateur DOLBY NR comme voulu.
OFF
ON
DOLBY NR
JVC
PC-V88
A
B
❹ Select the recording source.
• When dubbing the tape . . . . . TAPE
• When recording from the radio . . . . . TUNER
• When recording from the CD player . . . . . CD IN
Entsprechend der verwendeten Programmquelle einstellen.
• Bei Band-Überspielen . . . . . TAPE
• Aufnahme vom Radioteil . . . . . TUNER
• Bei Aufnahem über die CD-Player . . . . . CD IN
Sélectionner la source d'enregistrement.
• En copie . . . . . TAPE
• Pour enregistrer à partir de la radio . . . . . TUNER
• Lors de l'enregistrement à partir d'un lecteur CD . . . . . CD IN
HIGH SPEED
NORMAL SPEED
DUBBING
TAPE
TUNER
CD IN
❶ Set to ON.
Auf ON stellen.
Régler sur ON.
❺ Press the ○ REC button.
Die ○ REC-Taste drücken.
Appuyer sur la touche ○ REC.

Notes:
1. The recording characteristics of this unit are those of normal tape. Normal tape has different characteristics from CrO_2 and metal tapes.
2. Do not operate any button on deck B during recording.

Hinweise:
1. Die Aufzeichnungscharakteristika sind für Normalband ausgelegt. Diese unterscheiden sich von Chrom- und Metallbande.
2. Bei Aufnahme keine Bedienungselemente von Deck B benutzen.

Remarques:
1. *Les caractéristiques d'enregistrement de cet appareil sont celles d'une bande normale. Une bande normale a des caractéristiques différentes des bandes CrO_2 et métal.*
2. *Ne toucher à aucune touche de la platine B pendant l'enregistrement.*

DUBBING (SYNCHRO START DUBBING)

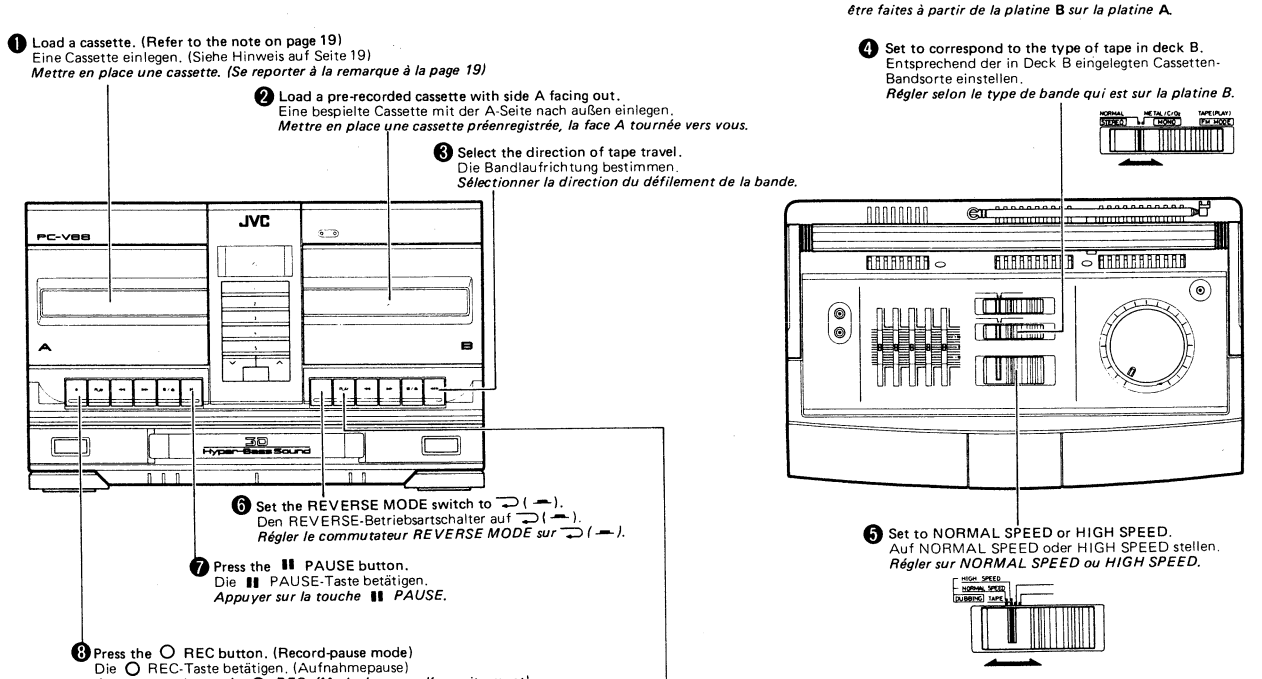
Normal and high-speed dubbing can be done from deck B to deck A.

ÜBERSPIELEN (MIT SYNCHRO-START)

Von Deck B kann in normaler oder hoher Geschwindigkeit zu Deck A überspielt werden.

COPIE (COPIE A DEMARRAGE SYNCHRONISE)

Des copies à vitesse normale ou à grande vitesse peuvent être faites à partir de la platine B sur la platine A.


❶ Load a cassette. (Refer to the note on page 19)
Eine Cassette einlegen. (Siehe Hinweis auf Seite 19)
Mettre en place une cassette. (Se reporter à la remarque à la page 19)
❷ Load a pre-recorded cassette with side A facing out.
Eine bespielte Cassette mit der A-Seite nach außen einlegen.
Mettre en place une cassette préenregistrée, la face A tournée vers vous.
❸ Select the direction of tape travel.
Die Bandlaufrichtung bestimmen.
Sélectionner la direction du défilement de la bande.
❹ Set to correspond to the type of tape in deck B.
Entsprechend der in Deck B eingelegten Cassetten-Bandsorte einstellen.
Régler selon le type de bande qui est sur la platine B.
NORMAL
METAL/CrO2
TAPE(PLAY)
STANDARD
HIGH
FM MODE
JVC
PC-V88
A
B
❻ Set the REVERSE MODE switch to ⇄ (→).
Den REVERSE-Betriebsartschalter auf ⇄ (→).
Régler le commutateur REVERSE MODE sur ⇄ (→).
❺ Set to NORMAL SPEED or HIGH SPEED.
Auf NORMAL SPEED oder HIGH SPEED stellen.
Régler sur NORMAL SPEED ou HIGH SPEED.
HIGH SPEED
NORMAL SPEED
DUBBING
TAPE
❼ Press the ▮▮ PAUSE button.
Die ▮▮ PAUSE-Taste betätigen.
Appuyer sur la touche ▮▮ PAUSE.
❽ Press the ○ REC button. (Record-pause mode)
Die ○ REC-Taste betätigen. (Aufnahmepause)
Appuyer sur la touche ○ REC. (Mode de pause d'enregitrement)
❾ Press the PLAY button. (Synchronized dubbing will start.)
Die PLAY-Taste betätigen. (Damit startet der Synchro-Überspielbetrieb.)
Appuyer sur la touche PLAY.
(La copie à démarrage synchronisé commencera.)

- In dubbing, the recording level is equal to the playback level of the tape being played in deck **B**. Noise reduction is automatically disabled during dubbing. Therefore, the copy will be an exact duplicate of the original; if the original tape is NR-encoded, the dubbed copy will also be NR-encoded.
  As the NR system does not affect the monitor's sound, the S.E.A. controls should be adjusted accordingly when monitoring a dubbing in which noise reduction is being performed.

Notes:
1. With deck **A** in the record-pause mode, the ❚❚ PAUSE button is released when deck **B** enters the stop mode.
2. Avoid switching the FUNCTION during dubbing.

DOLBY NR switch

- Tape recorded using Dolby B NR must be played back through the corresponding circuit.
  Note:
  Proper sound quality will not be obtained if different DOLBY NR switch setting is used during recording and playback.

S.E.A. graphic equalizer system

Each knob can be adjusted ±10 dB. By raising a knob towards the "+" mark, the frequency band will be emphasized and lowering a knob towards the "–" mark will de-emphasize it.
S.E.A. should be used in different ways to compensate for the various conditions in different circumstances. Try various adjustments and learn how to use S.E.A. to its best advantage.

- The S.E.A. is effective only during playback with the FUNCTION switch of the TAPE, TUNER or CD IN position.
- Set each control to the "0" (click) position when not compensating sound using the S.E.A.

❚❚ PAUSE button

When this button is pressed during recording or playback, the tape stops running; when it is pressed again, the tape restarts recording or playback again. Use this button to eliminate unwanted parts during recording, etc. In addition, when the ○ REC button is pressed after pressing the ❚❚ PAUSE button prior to starting recording, recording starts when the ❚❚ PAUSE button is pressed again to release the pause mode for better timing.

- Bei Überspielbetrieb entspricht der Aufnahmepegel dem Wiedergabepegel der in Deck **B** abgespielten Cassette. Bei Überspielbetrieb ist die Rauschunderdrückung ohne Funktion. Daher entspricht die Kopie exakt dem Original: Falls das Zuspielband mit Rauschunterdrückung aufgezeichnet wurde, ist die Überspielaufnahme ebenfalls mit Rauschunterdrückung versehen.
  Da das Rauschunterdrückungssystem nicht die Tonüberwachung betrifft, sollten die S.E.A-Regler bei Überspielen mit Rauschunterdrückung wie erforderlich eingestellt werden.

Hinweise:
1. Ist Deck **A** auf Aufnahmepause geschaltet, wird bei Pausefunktion ❚❚ PAUSE beendet, wenn Deck **B** auf Stop schaltet.
2. Bei Überspielbetrieb nicht den FUNCTION-Schalter betätigen.

DOLBY NR-Schalter

- Die Bänder, die mit Dolby B NR bespielt wurden, müssen in der entsprechenden Stellung wieder abgespielt werden.
  Hinweis:
  Wenn der DOLBY NR-Schalter in der falschen Stellung ist, wird die Wiedergabequalität beeinträchtigt.

S.E.A. Graphic Equalizer-System

Der Regelbereich für jeden Schieberegler liegt bei ±10 dB. Verschieben des Reglers in Richtung "+" Markierung bewirkt eine Verstärkung, in Richtung "–" Markierung eine Abdämpfung des jeweiligen Frequenzbandes. Der S.E.A. kann auf vielfältige Weise genutzt werden, um die Klangwiedergabe den jeweiligen Umgebungsbedingungen anzupassen. Verschiedene Einstellungn sollten ausprobiert werden, um den S.E.A. in all seinen Möglichkeiten nutzen zu können.

- Der S.E.A. steht nur bei Wiedergabebetrieb bei FUNCTION-Schalterposition TAPE, TUNER oder CD IN zur Verfügung.
- Bei Nichtverwendung des S.E.A. dessen Regler auf die einrastbaren Mittenpositionen ("0") stellen.

Pause-Taste (❚❚ PAUSE)

Wenn diese Taste bei Aufnahme oder Wiedergabe gedrückt wird, stoppt das Band. Wenn sie danach noch einmal gedrückt wird, wird die Aufnahme oder Wiedergabe fortgesetzt. Diese Taste ist nützlich, um bei der Aufnahme ungewünschte Stellen auszulassen. Wenn für Aufnahme zuerst die ❚❚ PAUSE-Taste und danach die ○ REC-Taste gedrückt wird, beginnt die Aufnahme, wenn die ❚❚ PAUSE-Taste noch einmal gedrückt wird. So kann die Aufnahme genau zum gewünschten Zeitpunkt gestartet werden.

- *En copie, le niveau d'enregistrement est égal au niveau de lecture de la bande lue sur la platine* **B**. *La réduction de bruit est automatiquement coupée pendant la copie. Cependant, la copie sera une duplication exacte de l'original; si la bande originale est encodée avec la réduction de bruit, la copie produite le sera également.*
  Comme le système de réduction de bruit n'affecte pas le son de contrôle, les commandes S.E.A. doivent être réglées pour le contrôle d'une copie dans laquelle la réduction de bruit est effective.

Remarques:
1. *Avec la platine* **A** *dans le mode de pause-enregistrement, la touche* ❚❚ *PAUSE est libérée lorsque la platine* **B** *entre dans le mode d'arrêt.*
2. *Eviter de commuter le sélecteur FUNCTION pendant la copie.*

Commutateur DOLBY NR

- *Les bandes enregistrées avec la réduction de bruit Dolby B NR en circuit doivent être lues de la même manière.*
  Remarque:
  Une qualité sonore satisfaisante ne peut pas être obtenue si les réglages du commutateur DOLBY NR sont différents pendant l'enregistrement et la lecture.

Egaliseur graphique S.E.A.

Chaque commande permet un réglage de ±10dB. En élevant une commande vers "+", cette gamme de fréquence sera mise en valeur et en la baissant vers "–", elle sera diminuée.
Le S.E.A. doit être utilisé de différentes manières pour compenser les diverses conditions sous différentes circonstances. Essayer plusieurs réglages et utiliser le S.E.A. à son mieux.

- *Le S.E.A. n'est efficace qu'en lecture avec le commutateur FUNCTION sur TAPE, TUNER ou CD IN.*
- *Placer chaque commande sur "0" (déclic) quand vous ne compensez pas le son avec le S.E.A.*

Touche de pause (❚❚ PAUSE)

Quand elle est pressée pendant l'enregistrement ou la lecture, la bande s'arrête de défiler. Quand elle est pressée à nouveau l'enregistrement ou la lecture recommence. Utiliser cette touche pour éliminer des passages que vous ne voulez pas enregistrer etc. De plus, quand la touche ○ REC est pressée après que la touche ❚❚ PAUSE soit repressée avant de commencer à enregistrer, l'enregistrement commencera quand la touche ❚❚ PAUSE est repressée: le mode de pause est alors relâché juste au bon moment.

BEAT CUT switch

When recording an MW or LW broadcast, beats may be produced which are not heard when listening to the broadcast. In such a case, set this switch so that the beats are eliminated. Normally set this switch to "1 NORM".

Erasing

When recording on a prerecorded tape, the previous recording is automatically erased and only the new program is recorded on the tape.
To erase a tape without making a new recording . . .
Follow the section "RECORDING" but in step ❹ , set the FUNCTION switch to CD IN and disconnect plugs from the CD IN jacks then perform recording to erase a tape.

Interferenzen-Schalter (BEAT CUT)

Bei der Aufnahme von MW- oder LW- Sendern können Interferenzen auftreten, die beim Hören des Senders nicht wahrgenommen werden. In einem solchen Fall diesen Schalter so einstellen, daß die Interferenzen eliminiert werden. Normalerweise sollte dieser Schalter auf "1 NORM" stehen.

Löschen

Wird auf ein bereits bespieltes Band aufgenommen, wird die alte Aufnahme automatisch vollständig gelöscht.
Löschen ohne Neuaufnahme
Wie in Abschnitt "AUFNAHME" vorgehen, jedoch bei Schritt ❹ den FUNCTION-Schalter auf CD IN stellen, wobei an dei CD IN keine Kabel angeschlossen sein sollten. Dann die Löschung starten.

Commutateur coupe-battements (BEAT CUT)

Lors de l'enregistrement d'émission PO ou GO des battements risquent de se produire alors qu'ils sont inaudibles lors de l'écoute de l'émission. Dans ce cas, régler ce commutateur de manière à ce que les battements soient éliminés. Le placer normalement sur "1 NORM".

Effacement

Lors de l'enregistrement sur une bande déjà enregistrée, le son antérieur est automatiquement effacé et seul le nouveau programme est enregistré sur la bande.
Pour effacer sans faire de nouvel enregistrement . . .
Suivre les instructions de la section "ENREGISTREMENT" mais à l'étape ❹ , placer le commutateur FUNCTION sur CD IN et déconnecter les prises CD IN puis enregistrer pour effacer la bande.

AUTO REVERSE (Deck B)

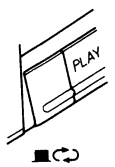
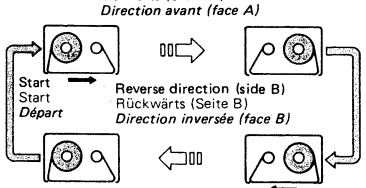
- The auto reverse operation of this unit turns the tape transport over to the reverse or forward direction automatically when the tape reaches its end during playback.
- Use the DIRECTION button to select the tape transport direction.
- In the following explanation, the side A loaded into the cassette holder facing out (toward you).

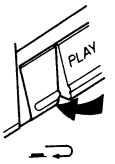
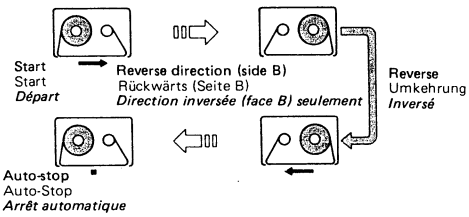
AUTOMATISCHE UMKEHRUNG (Deck B)

- Bei Autoreverse-Betrieb wird der Bandtransport automatisch auf Vorwärts- oder Rückwärtsrichtung geschaltet, sobald bei Wiedergabe das Bandende erreicht wird.
- Mit der DIRECTION-Taste die gewünschte Bandlaufrichtung wählen.
- In der folgenden Beschreibung wird angenommen, daß die Cassette mit der Seite A nach vorne eingelegt ist.

INVERSION AUTOMATIQUE (platine B)

- *Le dispositif d'inversion automatique de cet appareil tourne automatiquement la bande dans la direction inversée ou avant quand la bande arrive en bout de course pendant la lecture.*
- *Presser la touche DIRECTION pour sélectionner la direction de défilement de la bande.*
- *Dans les explications suivantes, la face A est insérée dans le compartiment cassette dirigée vers vous.*

REVERSE MODE UMKEHR-BETRIEBSART *MODE INVERSE*	Explanation Erläuterung *Explication*	Tape DIRECTION indicator Bandlaufrichtung-Anzeige *Indicateur de direction de bande*
Continuous Kontinuierlich *Continu* 	Forward direction (side A) Vorwärts (Seite A) *Direction avant (face A)*  ● The tape stops when the ■ / ⏏ STOP/EJECT button is pressed. ● Bei Betätigen der ■ / ⏏ STOP/EJECT-Taste wird das Band gestoppt. ● *La bande s'arrête quand la touche ■ / ⏏ STOP/EJECT est pressée.*	

REVERSE MODE UMKEHR-BETRIEBSART *MODE INVERSE*	Explanation Erläuterung *Explication*	Tape DIRECTION indicator Bandlaufrichtung-Anzeige *Indicateur de direction de bande*
Full Komplett *Complet* 	**Forward direction (side A)** Vorwärts (Seite A) *Direction avant (face A)*  • When the tape is played in the reverse direction (side B), only side B is played back and then the tape stops automatically. • Wird das Band in Rückwärtsrichtung bespielt oder abgespielt (Seite B), erfolgen diese beiden Funktionen nur für diese Seite. Bei Erreichen des Bandendes wird das Band gestoppt. • *Quand la bande est lue en direction inversée (face B), seule la face B est lue puis la bande s'arrête automatiquement.*	

- When playing back in the ⟲ continuous mode, the sides A and B are played back repeatedly.
- The DIRECTION button has priority over the REVERSE MODE button.

- Kontinuierliche Wiedergabe (⟲) bedeutet wiederholte abwechselnde Wiedergabe von Seite A und B.
- Die DIRECTION-Taste hat Vorrang gegenüber der REVERSE MODE-Taste.

- *Lors de la lecture en mode continu ⟲, les faces A et B sont lues à la suite l'une de l'autre.*
- *Le touche DIRECTION a priorité sur le touche REVERSE MODE.*

SPECIFICATIONS

<Radio Section>

Frequency ranges : FM 87.5 – 108 MHz
MW 522 – 1629 kHz
LW 144 – 288 kHz

Antennas : Telescopic antenna for FM
Ferrite core antenna for MW & LW
Ext. antenna terminal for FM (75 Ω) (PC-V88E)

<Tape Recorder Section>

Track system : 4-track 2-channel stereo
Motors : Electronic governor DC motor for capstan
Heads : Deck **A**; Hard permalloy head (for recording/playback), Permalloy head for erasure
Deck **B**; Hard permalloy head for playback
Frequency response : 40 – 14,000 Hz (with normal tape)
Wow & flutter : 0.22 % (WRMS)
Fast wind time : Approx. 120 sec. (deck **A**) (C-60 cassette)
Approx. 170 sec. (deck **B**) (C-60 cassette)

<General>

3D system : ASW (Acoustic Super Woofer)
Power output : 10 W (5 W + 5 W) at 6 Ω and 13 W for 3D at 8 Ω (Max.)
6 W (3 W + 3W) at 6 Ω and 9 W for 3D at 8 Ω (10 % THD)
S.E.A. characteristics : S.E.A. center frequencies.: 100 Hz/330 Hz/1 kHz/3.3 kHz/10 kHz
S.E.A. control range: ±10 dB
Input jacks : CD IN x 2 (440 mV/50 kΩ)
Output jacks : Speaker x 2 (matching impedance 6 – 16 Ω)
Headphones (15 mW/32 Ω) (matching impedance 16 Ω – 1 kΩ)

TECHNISCHE DATEN

<Radioteil>

Frequenzbereiche : UKW 87,5 – 108 MHz
MW 522 – 1629 kHz
LW 144 – 288 kHz

Antennen : UKW: Teleskopantenne
MW/LW: Ferritkernantenne
Außenantenne für UKW (75 Ω) (nur PC-V88E)

<Cassettenteil>

Spursystem : 4-Spur/2-Kanal-Stereo
Motoren : Elektrisch geregelter Gleichstrommotor für Capstan
Köpfe : Deck **A**: Hard Permalloy-Kopf (Aufnahme/Wiedergabe), Permalloy-Kopf für Löschen
Deck **B**: Hard Permalloy-Kopf für Wiedergabe
Frequenzgang : 40 – 14.000 Hz (Normalband)
Gleichlaufschwankungen : 0,22 % (WRMS)
Umspulzeit : Ca. 120 Sek. (Deck **A**) (C-60-Cassette)
Ca. 170 Sek. (Deck **B**) (C-60-Cassette)

<Allgemein>

3D-System : ASW (Acoustic Super Woofer)
Ausgangsleistung : 10 W (5 W + 5 W) an 6 Ω und 13 W für 3D an 8 Ω (max.)
6 W (3 W + 3 W) an 6 Ω und 9 W für 3D an 8 Ω (10 % Klirrfaktor)
S.E.A.-Daten : S.E.A. Mittenfrequenzen: 100 Hz/330 Hz/1 kHz/3,3 kHz/10 kHz
S.E.A.-Regelbereich: ±10 dB
Eingangsbuchsen : CD IN x 2 (440 mV/50 kΩ)
Ausgangsbuchsen : Lautsprecher x 2 (geeignete Impedanz 6 – 16 Ω)
Kopfhörer (15 mW/32 Ω) (Geeignete impedanz: 16 Ω – 1 kΩ)

CARACTERISTIQUES TECHNIQUES

<Section radio>

Gammes de fréquences : *FM 87,5 – 108 MHz*
PO 522 – 1629 kHz
GO 144 – 288 kHz
Antennes : *Antenne télescopique pour FM*
Antenne à noyau de ferrite incorporée pour PO et GO
Antenne externe pour FM (75 Ω) (PC-V88E seulement)

<Section magnétophone>

Système de pistes : *4 pistes, 2 canaux stéréo*
Moteurs : *Moteur CC à régulateur électronique pour le cabestan*
Têtes : *Platine **A**: Tête en alliage dur "Permalloy" (pour l'enregistrement et la lecture),*
Tête en allige dur "Permalloy" pour l'effacement
*Platine **B**: Tête en allige dur "Permalloy" pour la lecture.*
Reponse en fréquence : *40 – 14.000 Hz (avec bande normale)*
Pleurage et scintillement : *0,22 % (WRMS)*
Durée d'enroulement : *Environ 120 secondes (platine **A**) (cassette C-60)*
*Environ 170 secondes (platine **B**) (cassette C-60)*

<Général>

Système 3D : *ASW (Super woofer acoustique)*
Puissance de sortie : *10 W (5 W + 5 W) sous 6 Ω et 13 W pour 3D sous 8 Ω (Max.)*
6 W (3 W + 3 W) sous 6 Ω et 9 W pour 3D sous 8 Ω (à 10 % de DHT)
S.E.A. caractéristiques: *Fréquences centrales du S.E.A.: 100 Hz/330 Hz/1 kHz/3,3 kHz/10 kHz*
Gamme de contrôle du S.E.A.: ±10 dB
Prises d'entrée : *CD IN x 2 (440 mV/50 kΩ)*
Prise de sortie : *Haut-parleur x 2 (imédance 6 – 16 Ω)*
Casque d'écoute (15 mW/32 Ω) (impédance: 16 Ω – 1 kΩ)

Power supply	: DC 12 V (8 "R20" celles) AC 110 – 120 V/220 – 240 V, 50/60 Hz
(PC-V88E only)	Ext. DC IN 12 V (Car adapter via optional CN-332 car adapter)
Power consumption	: 35 W (with POWER SW ON) 1.5 W (with POWER SW STANDBY)
Dimensions	: 676(W) x 234(H) x 224(D) mm including knobs
Weight	: Approx 6.7 kg (without batteries) Approx. 7.5 kg (with batteries)
<Speaker Section>	(each unit)
Speakers	: 10 cm x 1
Impedance	: 6 Ω
Dimensions	: 170(W) x 204(H) x 192(D) mm
Weight	: Approx. 0.96 kg

Design and specifications are subject to change without notice.

Spannungsversorgung	: 12 V Gleichstrom ("R20" Batterien x 8) Netz 110 – 120 V/220 – 240 V, 50/60 Hz
(nur PC-V88E)	Ext. Gleichspannung, 12 V, (Auto-Adapter CN-332, Sonderzubehör)
Leistungsaufnahme	: 35 W (eingeschaltete Spannungsversorgung) 1,5 W (Betriebsbereitschaft)
Abmessungen	: 676(B) x 234(H) x 224(T) mm inkl. Bedienelemente
Gewicht	: Ca. 6,7 kg (ohne Batterien) Ca. 7,5 kg (inkl. Batterien)
<Lautsprecher>	(pro Box)
Lautsprecher	: 10 cm x 1
Impedanz	: 6 Ω
Abmessungen	: 170(B) x 204(H) x 192(T) mm
Gewicht	: Ca. 0,96 kg

Technische Änderungen vorbehalten.

Alimentation	*: CC 12 V (8 piles "R20") CA 110 – 120 V/220 – 240 V, 50/60 Hz*
(PC-V88E seulement)	*Entrée CC 12 V (adaptateur automobile via l'adaptateur CN-332 en option)*
Consommation	*: 35 W (l'interrupteur d'alimentation sur ON) 1,5 W (l'interrupteur d'alimentaion sur STANDBY)*
Dimensions	*: 676(L) x 234(H) x 224(P) mm y compris les boutons*
Poids	*: Environ 6,7 kg (sans piles) Environ 7,5 kg (avec piles)*
<Section haut-parleur>	*(chaque enceinte acoustique)*
Haut-parleurs	*: 10 cm x 1*
Impédance	*: 6 Ω*
Dimensions	*: 170(L) x 204(H) x 192(P) mm*
Poids	*: Environ 0,96 kg*

Présentation et caractéristiques modifiables sans préavis.

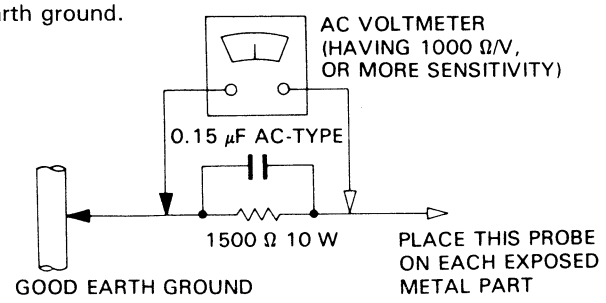
Area suffix
B . . . . . U.K.
E . . . . . Continental Europe
G . . . . . W. Germany

Gebietskennung
B . . . . . Großbritannien
E . . . . . Kontinental-Europa
G . . . . . Bundesrepublik Deutschland

Suffixe des zones
B . . . . . Royaume-Uni
E . . . . . Europe Continentale
G . . . . . Allemagne de l'Ouest

1 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (⚠) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are mainteined.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

2 Location of Main Parts

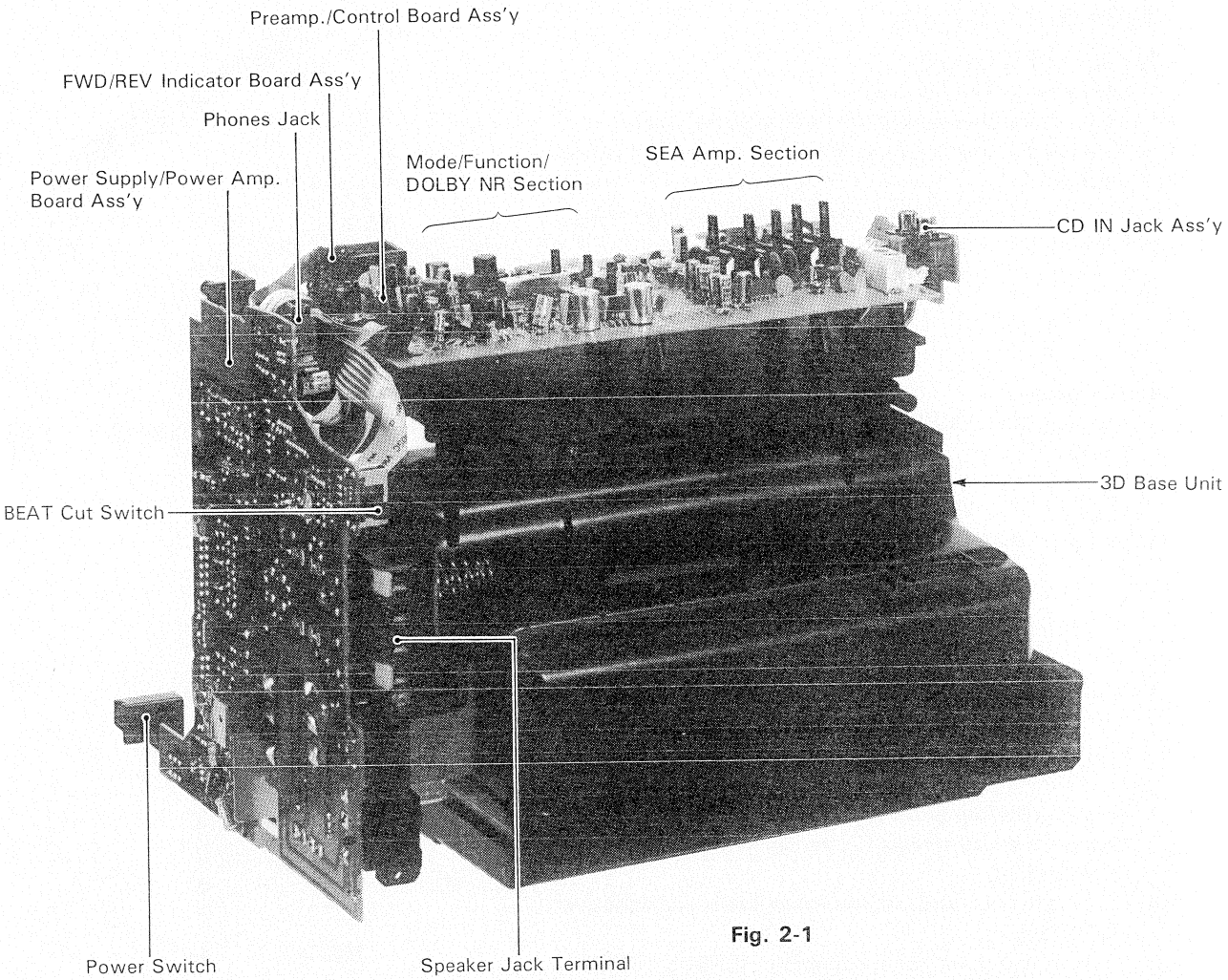


Fig. 2-1

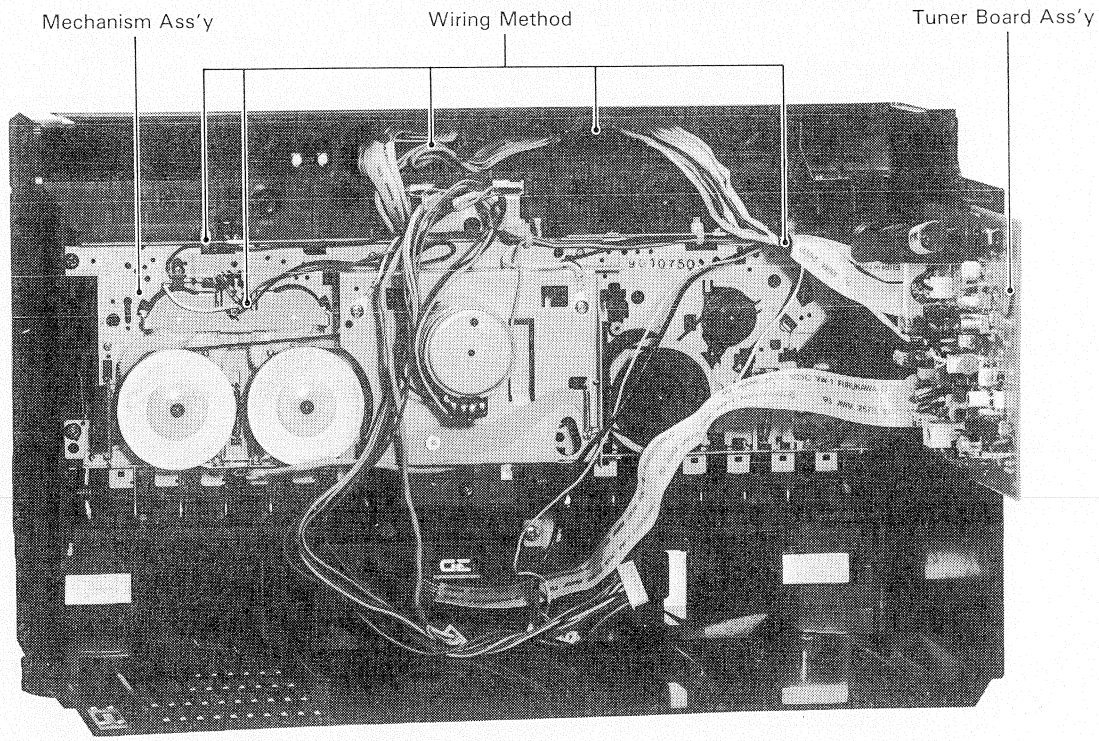


Fig. 2-2

3 Removal of Main parts

■ Enclosure Section

■ Cabinet disassembly

1. Remove the battery cover.
2. Remove the two screws (1) in the battery case.
3. Remove the seven screws (2) and (3) retaining the rear cabinet.
4. Remove the two screws (4) retention on both sides.
5. Remove the rear cabinet.

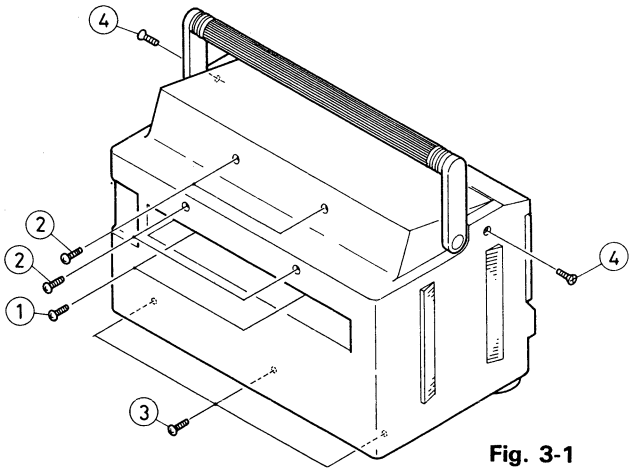


Fig. 3-1

■ Top panel

1. Remove the Volume/Function/Dolby NR/Tape Switch Knobs.
2. Remove the two screws under the volume and function knobs.
3. The top panel can now be removed.

■ Front cabinet assembly

1. Open the cassette door and remove the two screws (5) located on the upper part of the door.
2. From the right side remove the single screw (6) retaining the transformer bracket.
3. Remove the two screws (7) retaining the 3 D case and the F-cabinet.
4. Remove the wire dressed from wire holder and adhesive wire straps.
5. Remove the next wire connector (CN805, CN701, CN702, CN773) from the pre amp./control board and the power amp. board.
6. Pull the chassis assembly and board assembly out slightly and remove the LCD lamp from the lamp case.
   - Pull out the tuner board assembly and it can be removed.

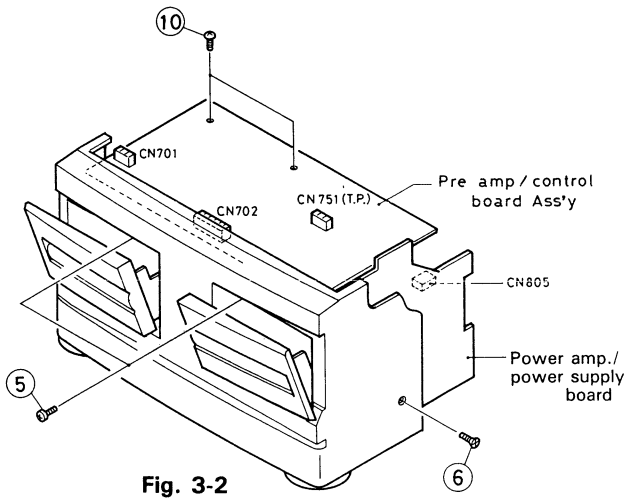


Fig. 3-2

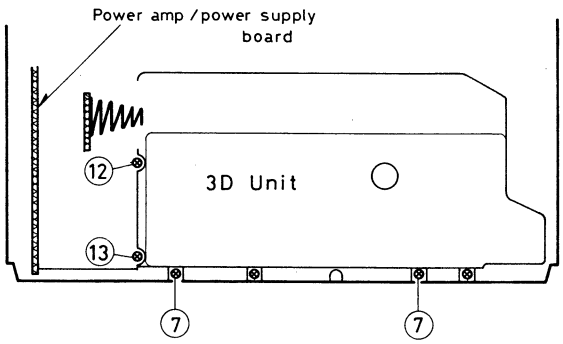


Fig. 3-3

■ Mechanism assembly

1. Remove the tuner board assembly.
2. Remove the seven screws (8), (8') and (9) retaining the mechanism assembly.
3. Open the cassette door and remove the mechanism assembly.

* For wiring, refer to the page 18 and 19.

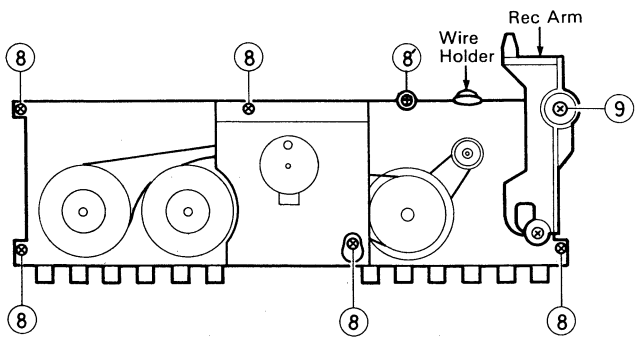


Fig. 3-4

■ LCD (DTS Board)

Remove the three screw retaining the board.

■ **Mechanism control knob**

Remove the four screws retaining the knob bracket and the knob can be removed.
Same for Deck A and Deck B.

■ **Pre amp./Control baord assembly (See Fig. 3-2)**

1. Remove the two screws ⑩ retaining the board assembly.
2. Remove the connectors when necessary.

■ **Power amp./power supply board assembly**

1. When removing just the board assembly:
   a) Remove the single screw ⑪ attaching the board to the chassis.
   b) Remove the two screws ⑫ and ⑬ retaining the power transformer bracket to the 3 D case. (See Fig. 3-3)
   c) Remove the direction indicator board.
   d) Remove the 3 D indicator board.
   e) Remove the two connectors (CN 771, CN 772) on the pre amp./control board.
   f) Lift up the power board and remove the 3 D connector.

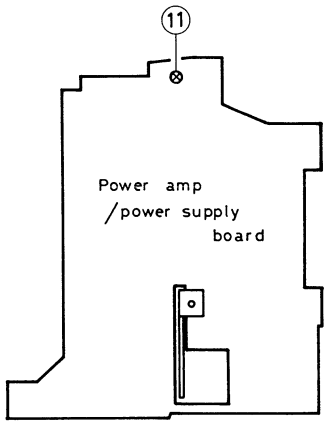


Fig. 3-5

■ **3 D speaker**

1. Remove the power amp/power supply and pre amp/control board.
2. Remove the four screws under the pre amp board attaching the chassis to the 3 D case and remove the chassis from the 3 D case.
3. next, remove the five screws (back side) attaching the 3 D base to the 3 D case.
4. Remove the single screw (front side) attaching the 3 D case to the 3 D base.

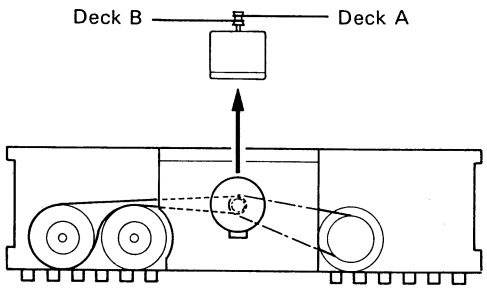


Fig. 3-6

■ Disassembly of Mechanism Section

■ **How to engage the capstan belt**

■ **Motor bracket (See Fig. 3-6)**

1) Remove the two screws ①.
2) Remove a screw ② securing the lug wire.
   • Remove ①' and ②' on Deck B.
3) Remove the chassis and M. bracket from the button side. Then remove the bracket arm (panel).
   (The synchro arm can be removed from the pause lock. Return the pause lock after it is removed from the proper position.)

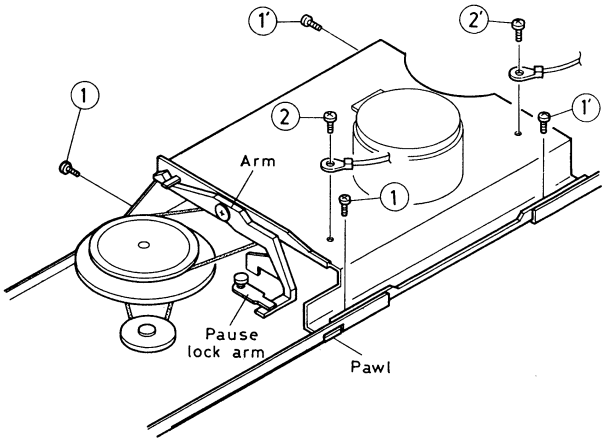


Fig. 3-7

(Deck A Section)

■ Head section

1) Remove the record/playback head's mounting screw Ⓐ and loosen screw Ⓑ.
2) Remove the erase head mounting screw Ⓒ and Ⓓ.

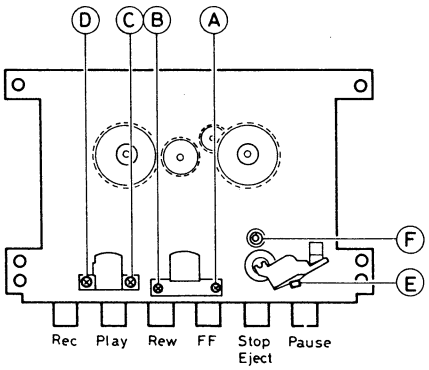


Fig. 3-8

■ Pinch roller (Deck A)

1) Remove the pinch roller arm stopper E.

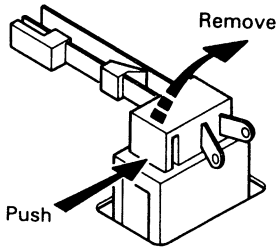


Fig. 3-9

■ Flywheel ass'y (Deck A)

1) Remove the C washer Ⓕ securing the capstan shaft.
2) Pull out the flywheel ass'y.

■ Removal of the button ass'y from the mechanical chassis.

- Leaf switch
  Press the switch's lock panel and raise from the left to remove.

- Gear (Below the flywheel)
  Remove the C washer Ⓖ securing the gear.
  For reassembly, insert the Sensing Lever arm stand into the Ⓩ section.

- Lock arm
  Press the arm stopper from window Ⓗ, and pull to remove.

- Chassis removal
  1) Remove the three Ⓙ, Ⓚ, and Ⓛ springs.
  2) Remove the two screws ②.
  3) Remove the two screws ③ securing the capstan metal.
  4) Gently remove the button ass'y from the chassis.

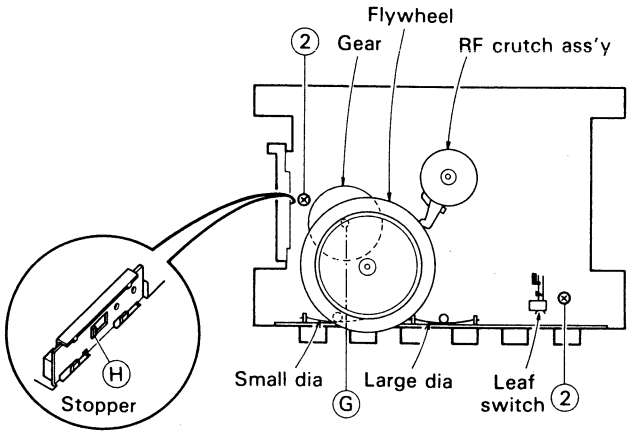


Fig. 3-10

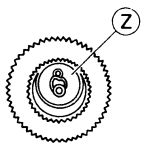


Fig. 3-11

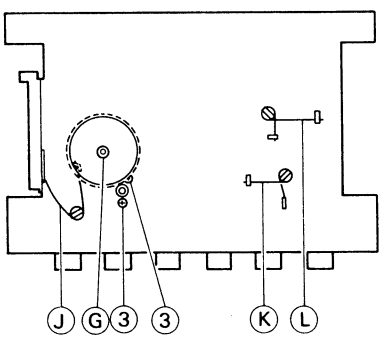


Fig. 3-12

(Deck B Section)

■ Head assembly

1) Disconnect wiring of the head. (The wire clamp can be taken off by pressing it in the direction of the arrow mark shown in the figure.) (See Fig. 3-13)
2) Remove two screws (6) securing the head assembly.
3) Remove two adjusting screws (7).
4) Slightly lifting the head assembly upward, pull it in the direction of Y shown in the figure to make the shaft (B) free from engagement.

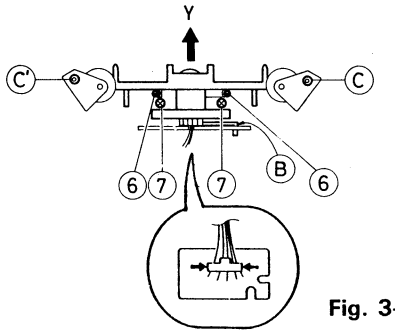


Fig. 3-13

■ Pinch roller

The pinch roller can be removed by disengaging washers (C) and (C').

■ Disk unit assembly

1) Remove a screw (10) securing the motor switch.
2) Remove a screw (11) securing the disk base bracket.
3) Setting up the disk base unit disengage the pawl of the (D), and then remove the disk unit assembly with careful attention not to overstrain the gears.
(Removing the flywheel beforehand eases the work of this step.)

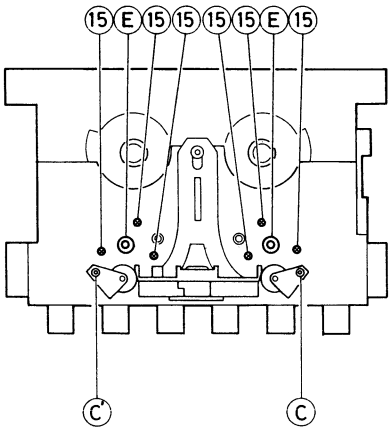


Fig. 3-14

■ Flywheel assembly

Remove a washer (E) securing the flywheel assembly. (At this step, be careful not to miss a flat washer set below the washer (C).)

■ T. cam gear

T. cam gears can be disengaged by removing the C-shape washer (E).
(Pay attention to left and right gears which are different each other.)

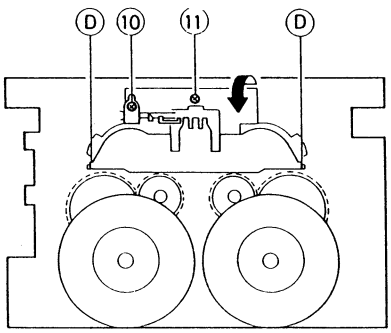


Fig. 3-15

■ **Button base assembly**

1) Remove two screws (12) on the rear panel.
2) Remove a screw securing the pause button lever, and remove the pause button lever's stud from the lever. After the above procedure, press the button lever to remove it.
3) Remove a screw securing the reverse mode button lever and remove a stud from the button lever. Then press the lever to remove it.
4) Disengage springs at seven points (G), (H), (K), (L), (M), (N) and (P) shown in the figure.
5) Remove six screws (15) securing the capstan sleeve. (See Fig. 3-15.)
6) Reverse the set upside down (buttons are positioned downward), and remove the chassis and button base assembly.

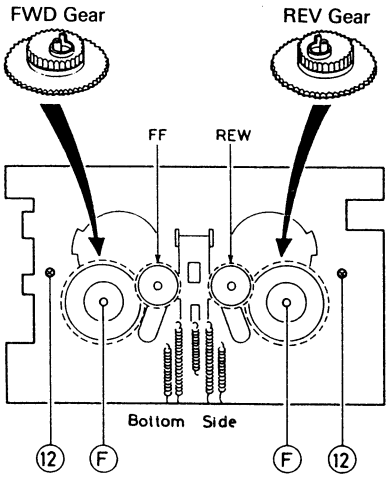


Fig. 3-16

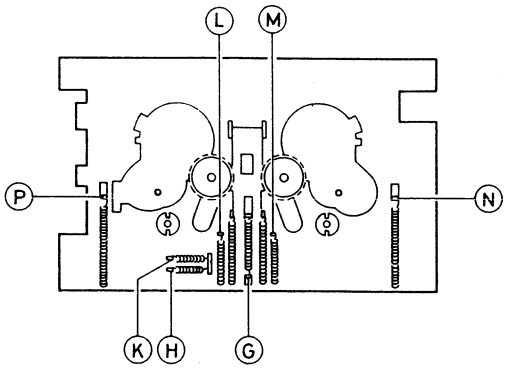


Fig. 3-17

4 Main Adjustment

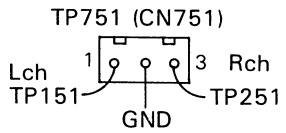
■ Amplifier adjustments

Conditions

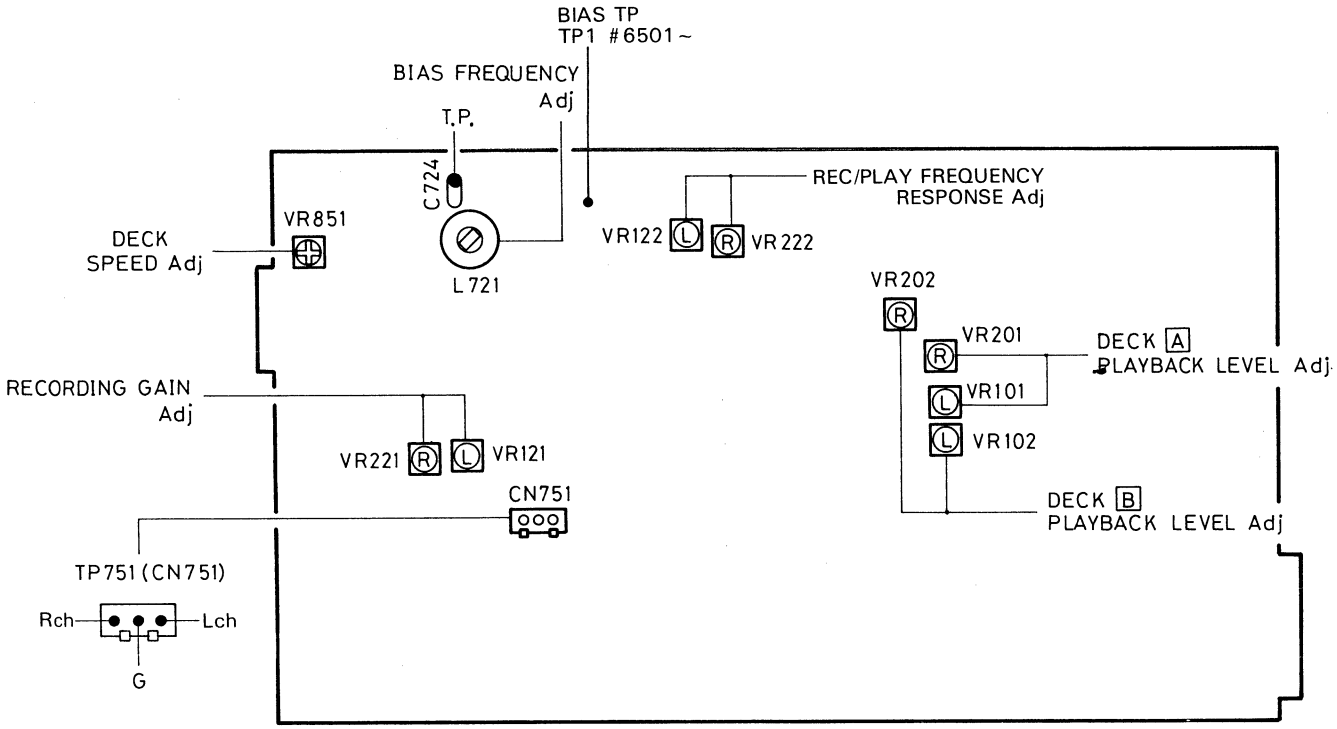
Power supply voltages : DC 12 V (from battery)
Input levels : AUX (CD) −5 dBs
Output levels : Speaker 0 dBs/6 Ω
Headphones 0 dBs/32 Ω

SEA controls : Center
Tape select : Normal
Tapes used : Recording normal tape TS-8 (UR)

0 dBs = 0.775 V

Item	Tape used	Adjustment/check method	Switch setting	Adjustment location
Head azimuth adjustment	VTT703 (10 kHz)	Maximize outputs of decks A and B; adjust to minimize phase difference between left and right channels. To adjust deck A, adjust FWD first, then REV. After adjustment, apply screw locking compound. { Fine adjustment after assembly should be done with the head cover removed.	Tape/normal speed	Deck A: Adjust FWD then REV Deck B
Tape speed adjustment	VTT712 (3 kHz)	After normal speed adjustment, perform double speed adjustment 1. Adjust the normal speed of deck A to 3 kHz with VR851. 2. Check if Deck [B] is at 3000 Hz +10 Hz. 3. To confirm high speed mode, play back Deck [B], then set Deck [A] to record mode.	Tape/Normal speed High speed	VR851
Checking wow & flutter	VTT712 (3 kHz)	Deck B : 0.22% or less Deck A : 0.22% (JIS RMS) or less	Tape/Normal speed	
Playback output level	VTT724 (1 kHz)	Adjust VR101, VR102 (deck A) and VR201, VR202 (deck B) so that the output of TP151, TP251 and TP751 (CN751) are −10 dBs 	Tape/Normal speed	Deck A L ch : VR101 R ch : VR201 Deck B L ch : VR102 R ch : VR202
Confirming playback frequency response	VTT739	With respect to their outputs at 1 kHz, the outputs at TP151 and TP251 should be −6 ± 4 dB at 63 Hz, and 0 ± 3 dB at 10 kHz.	Tape/Normal speed	
Recording bias frequency	(TS-8) Normal tape	Set beat cut switch S721 to position 1 and adjust the oscillating frequency of C724 to 71.5 ± 0.5 kHz with L721. (Connect a 100 Ω resistor in series when measuring.) #6501 ~ TP1	S721 (Beat cut) 2 : 65 kHz 3 : 73 kHz	L721
Rec/Play frequency response	(TS-8) Normal tape	Deck A: Adjust VR122 (L ch) and VR222 (R ch) so that the rec/play output of an input signal −5 dB with respect to the reference level at 1 kHz is 0 dB ± 1 dB at 10 kHz. Deck B : Same as deck A. Measure outputs from TP151 and TP251.		L ch : VR122 R ch : VR222
Rec/play output adjustment	(TS-8) Normal tape	Adjust VR121 (L ch) and VR221 (R ch) so that the level when recording and playback an AUX (CD) IN signal −5 dB with respect to the reference level is +1 dBs ± 1 dB.		L ch : VR121 R ch : VR221

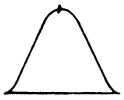
Location of Adjustment

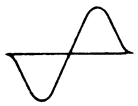


■ Tuner Alignment

BASIC CONDITIONS

POWER SOURCE OF THE RECEIVER	DC 12 V, AC 120 V (Tuner input: DC 5.8 V)
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.55 V)/6 Ω
MODULATION OF SSG	AM: 400 Hz. 30% FM: 400 Hz 22.5 kHz DEV:

Item	Description
1. AM IF ALIGNMENT (The unit should not usually require adjustment. Follow the steps below when adjustments are necessary).	
1-1 Conditions of the receiver.	
(1) Power source:	DC 5.8 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	AM
(4) Volume control:	Minimum gain position
(5) SEA control:	Center position
(6) Reception frequency:	Set the reception frequency to the highest position and to the position where the signal does not enter.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP3
(2) Tuner output:	Positive side to TP6 Negative side to TP7]
1-3 Aligning position:	CFT, T2
1-4 Alignment (Waveform): 	Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper.

Item	Description
2. FM IF ALIGNMENT (The unit should not usually require adjustment. Follow the steps below when adjustments are necessary).	
2-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) SEA control:	Center position
(6) Reception frequency:	Set the reception frequency to the highest position and to the position where the signal does not enter.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP5
(2) Tuner output:	Positive side to TP6 Negative side to TP7
NOTE a) Attach a capacitor (30 pF) and resistor (33 kΩ) to the positive side cable which shall be led from Sweeper output. b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper input.	
2-3 Aligning position:	Discriminate Waveform: T1 ("S" curve waveform)
2-4 Alignment (Waveform):	
NOTE The discriminator's CF is yellow. Do not use one that is of another color.	Adjust the discriminate T1 so that above symmetrical IF waveform may be changed to balanced "S" curve waveform.
3. AM RF ALIGNMENT	
3-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Volume control:	50 mW
(4) SEA control:	Center position
(5) Variable capacitor:	Refer the following list shown in item 3-4.
3-2 Conditions of SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 3-4.
(3) Output level of the attenuator in SSG:	Approx. 50 mW
3-3 Output measuring position:	Speaker terminals
3-4 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Preset Memory No.	Aligning Position
1	AM	Loop Antenna	Refer to the adjustment directions on the next page regarding adjustment of the transmission frequency.		
2					
3					
4			600 kHz	to be received 600 kHz (M2)	L3
5			1,500 kHz	to be received 1,500 kHz (M4)	TC2
6			Adjust the above aligning position (L3 & TC2) repeatedly so that the tuner can be obtained the best sensitivity.		
7	LW	Loop Antenna	Adjust L6 until the voltage at TP9 equals 4.5±0.02 V.		
8			162 kHz	to be received 162 kHz	L4
9			270 kHz	to be received 270 kHz	TC4
10			Adjust the above aligning position (L4 & TC4) repeatedly so that the tuner can be obtained the best sensitivity.		

Item	Description
4. FM RF ALIGNMENT	
4-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	50 mW
(5) SEA control:	Center position
(6) Reception frequency:	Refer the following list shown in item 4-4.
4-2 Condition of FM SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 4-4.
4-3 Connection of sweeper and the receiver.	
(1) Tuner input	Positive side to TP1. Negative side to TP2.
(2) Output measuring position	Speaker Terminal
4-4 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Preset Memory No.	Aligning Position
1	FM	Dummy Antenna 75 Ω Unbalanced	108 MHz	M5	L1
2			Adjust L1 until the voltage of TP9 becomes 4.4±0.02 V.		
3					
4			88 MHz	to be received 90 MHz (M2)	L2
5			106 MHz	to be received 106 MHz (M4)	TC-2
6			Adjust the above aligning position (L2 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity.		

• MW RF Tracking.

① Turn L5 one turn clockwise and adjust TC5 to the center position.

② Press M5 to display 1629 kHz and measure the voltage at TP9.

a. When the measured value is higher than 4.6 V:
   (1) Re-adjust L5 until the value is 4.60±0.02 V.
   (2) Press M1 to display the frequency of the lower side band edge. Adjust TC3 so that the value is 1.10±0.02 V when the voltage at TP9 is 522 kHz.
   (3) Repeat steps (1) and (2).

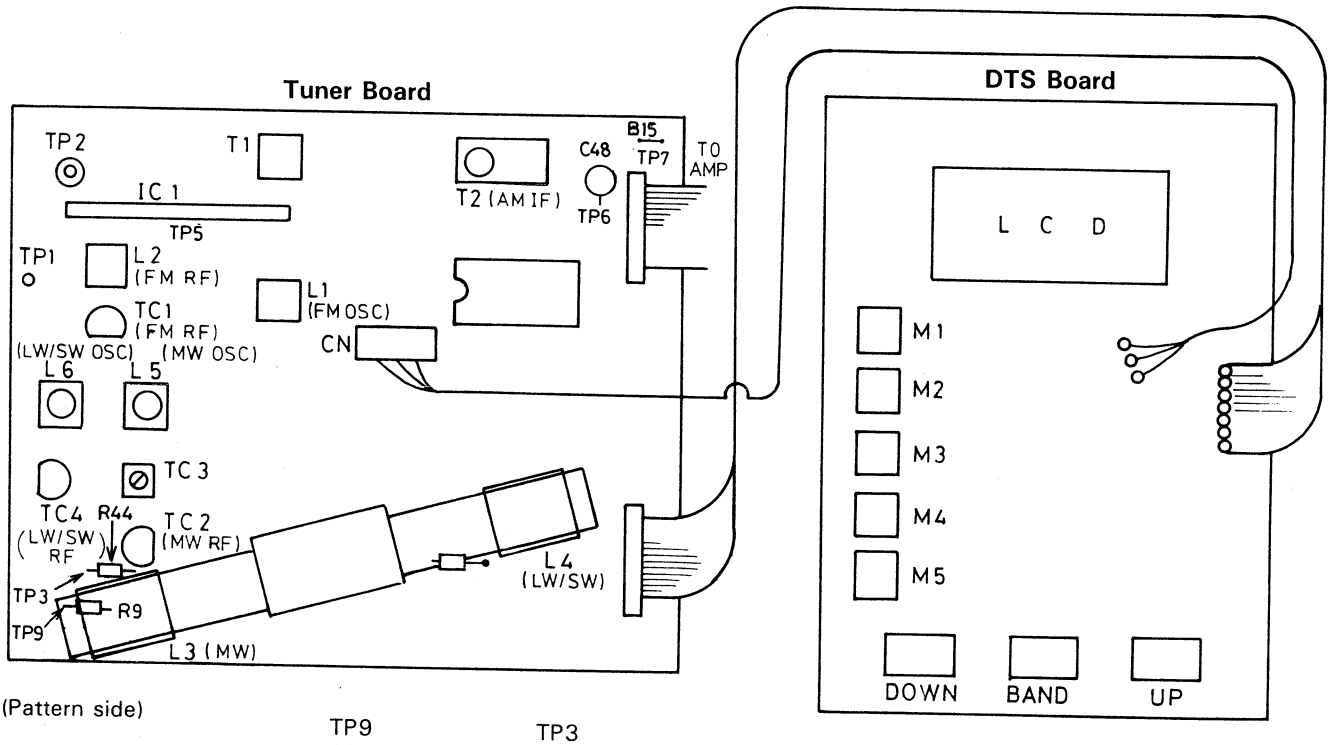
b. When the measured value is 4.3 ~ 4.6 V:
   (1) Do not turn L5 after step (1).
   (2) Press M1 to display the frequency of the lower side band edge. Adjust TC3 so that the value is 1.00±0.02 V when the voltage at TP9 is 522 kHz.

c. When the measured value is lower than 4.3 V.
   (1) Do not turn L5 after step (1).
   (2) Press M1 to display the frequency of the lower side band edge. Adjust TC3 so that the value is 0.95±0.02 V when the voltage at TP9 is 522 kHz.

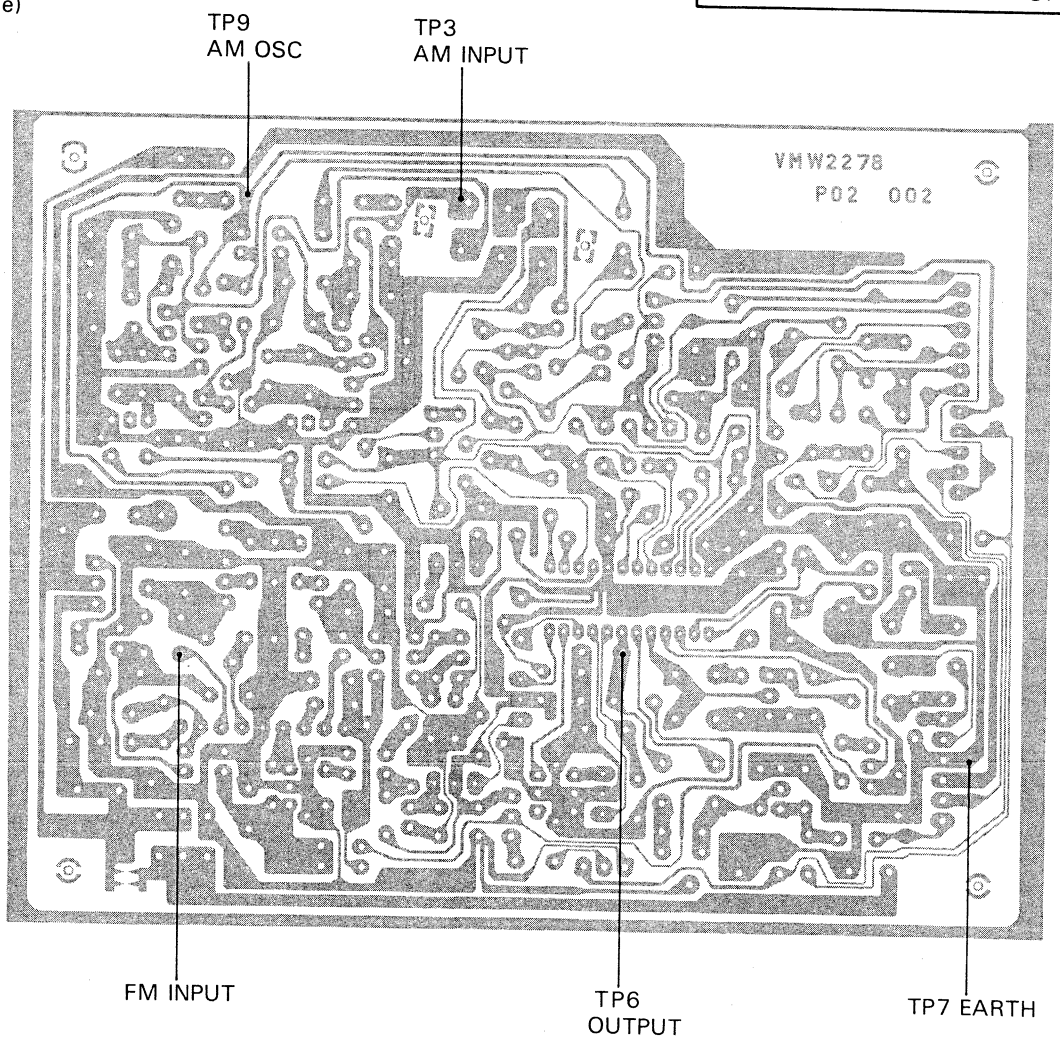
③ Follow the AM tracking order 10 to 12 on sheet 2 to carry out RF tracking.

④ Confirm that the sensitivity is within the regulation values.

Parts Arrangement for Alignment



(Pattern side)



5 Block Diagram

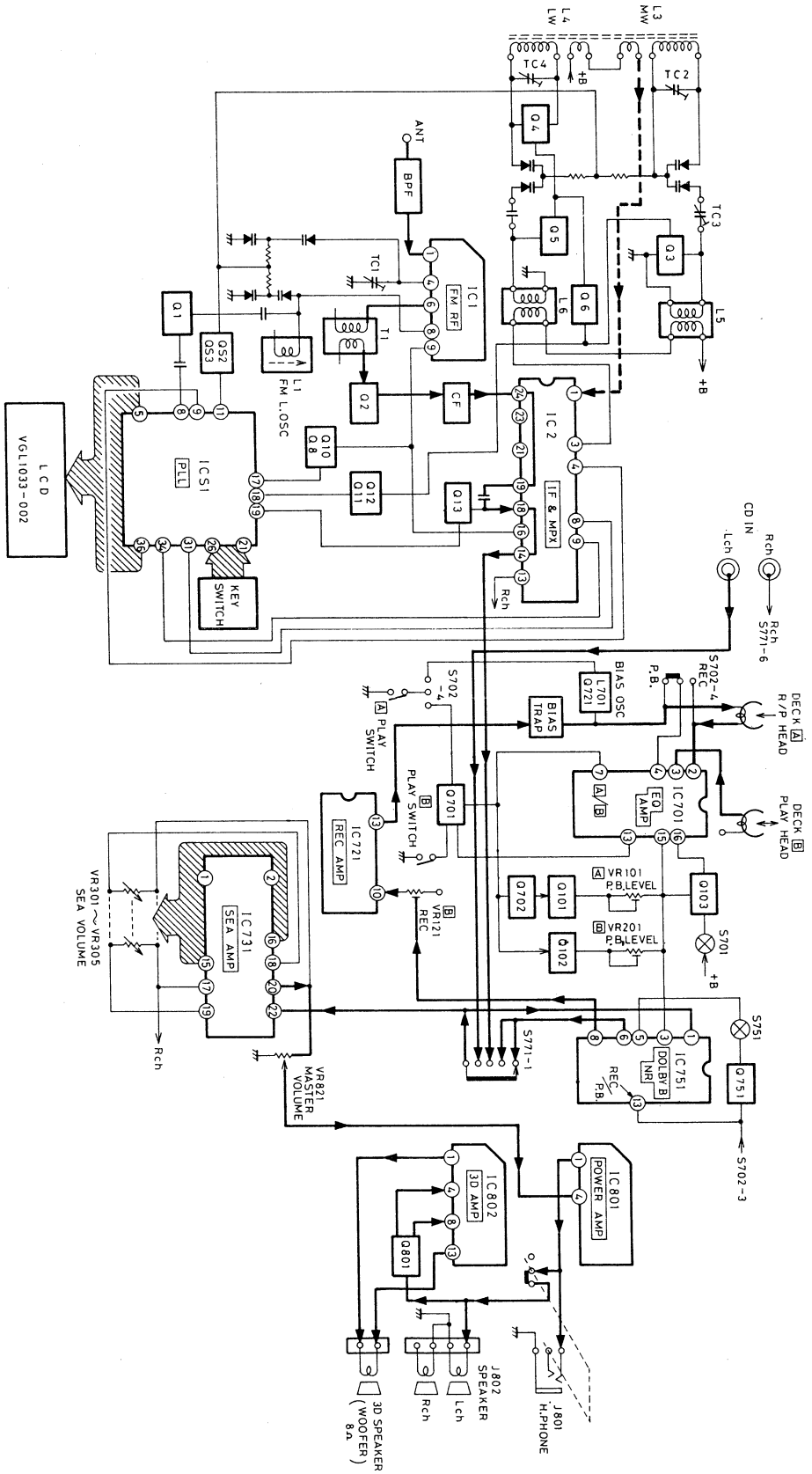


Fig. 5-1

6 Standard Schematic diagram

■ Tuner Circuit

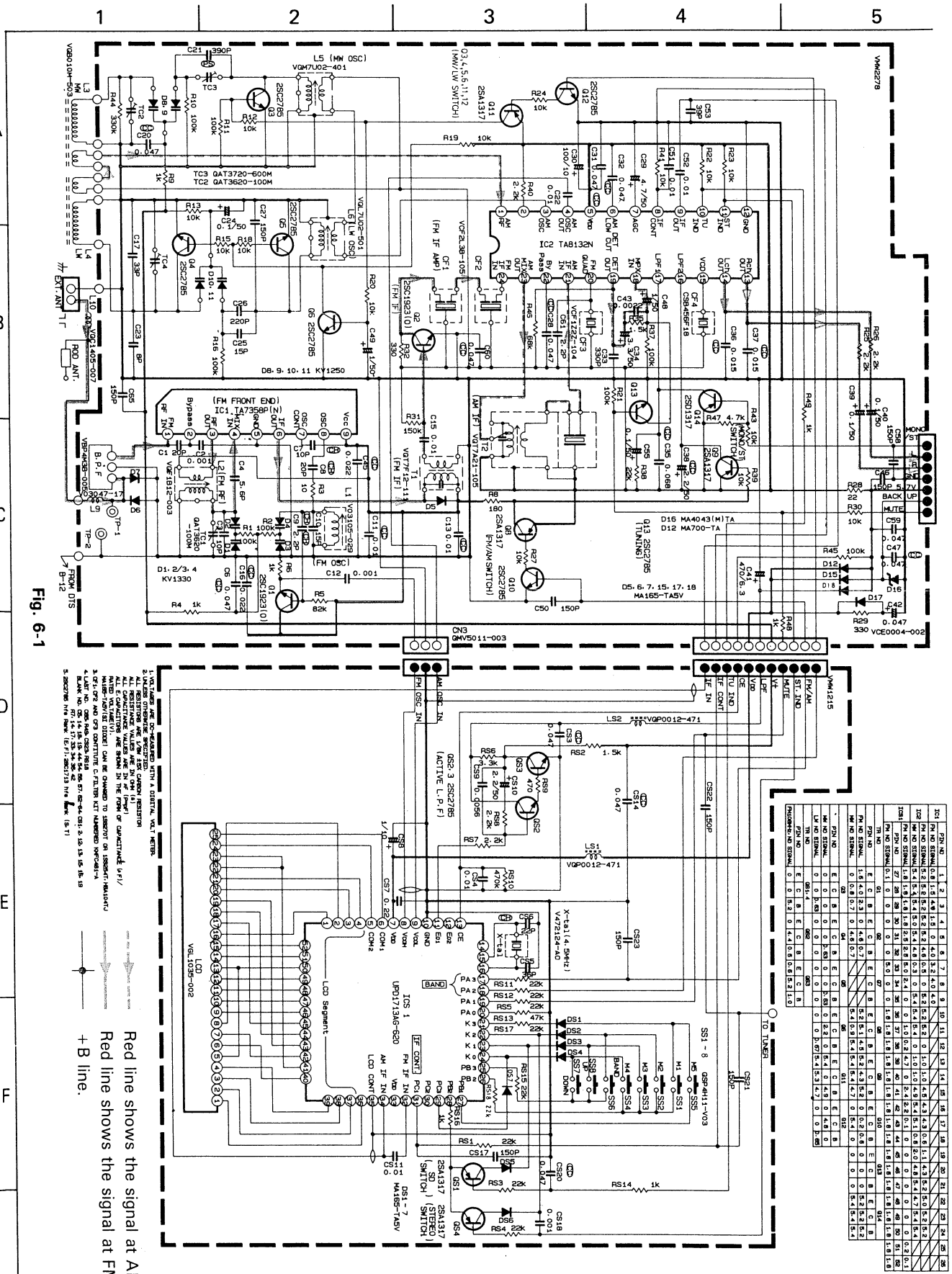
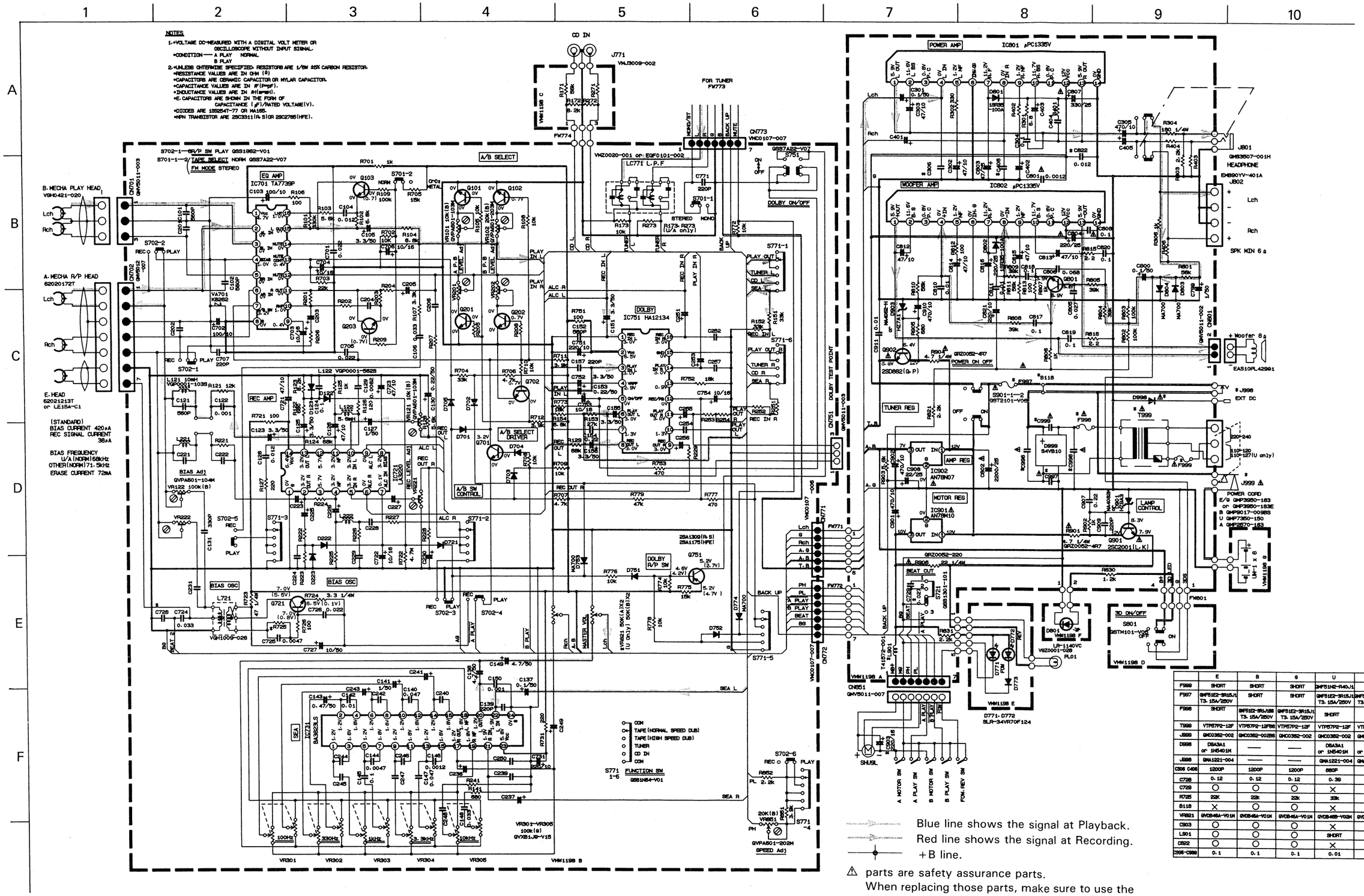


Fig. 6-1

Red line shows the signal at AM.
Red line shows the signal at FM.
+B line.

■ Amplifier Circuit



	E	B	G	U	A
F999	SHORT	SHORT	SHORT	QMF51N2-R40J1	SHORT
F997	QMF51E2-3R15J1 T3.15A/250V	SHORT	SHORT	QMF51E2-3R15J1 T3.15A/250V	QMF51E2-3R15J1 T3.15A/250V
F998	SHORT	QMF51E2-3R15J1 T3.15A/250V	QMF51E2-3R15J1 T3.15A/250V	SHORT	SHORT
T999	VTP57P2-12F	VTP57P2-12FBS	VTP57P2-12F	VTP57P2-12F	VTP57P2-12F
J999	QMC0362-002	QMC0362-002BS	QMC0362-002	QMC0362-002	QMC0362-002
D998	DSA3A1 or 1N5401M	——	——	DSA3A1 or 1N5401M	DSA3A1 or 1N5401M
J998	QMA1221-004	——	——	QMA1221-004	QMA1221-004
C305 C406	1200P	1200P	1200P	680P	680P
C728	0.12	0.12	0.12	0.39	0.39
C729	○	○	○	×	×
R725	22K	22K	22K	33K	33K
B118	×	○	○	×	×
VR821	GVDB46A-V01M	GVDB46A-V01M	GVDB46A-V01M	GVDB46B-V02M	GVDB46A-V01M
C903	○	○	○	×	×
L901	○	○	○	SHORT	SHORT
C822	○	○	○	×	×
C396-C399	0.1	0.1	0.1	0.01	0.01

7 Wiring Connections

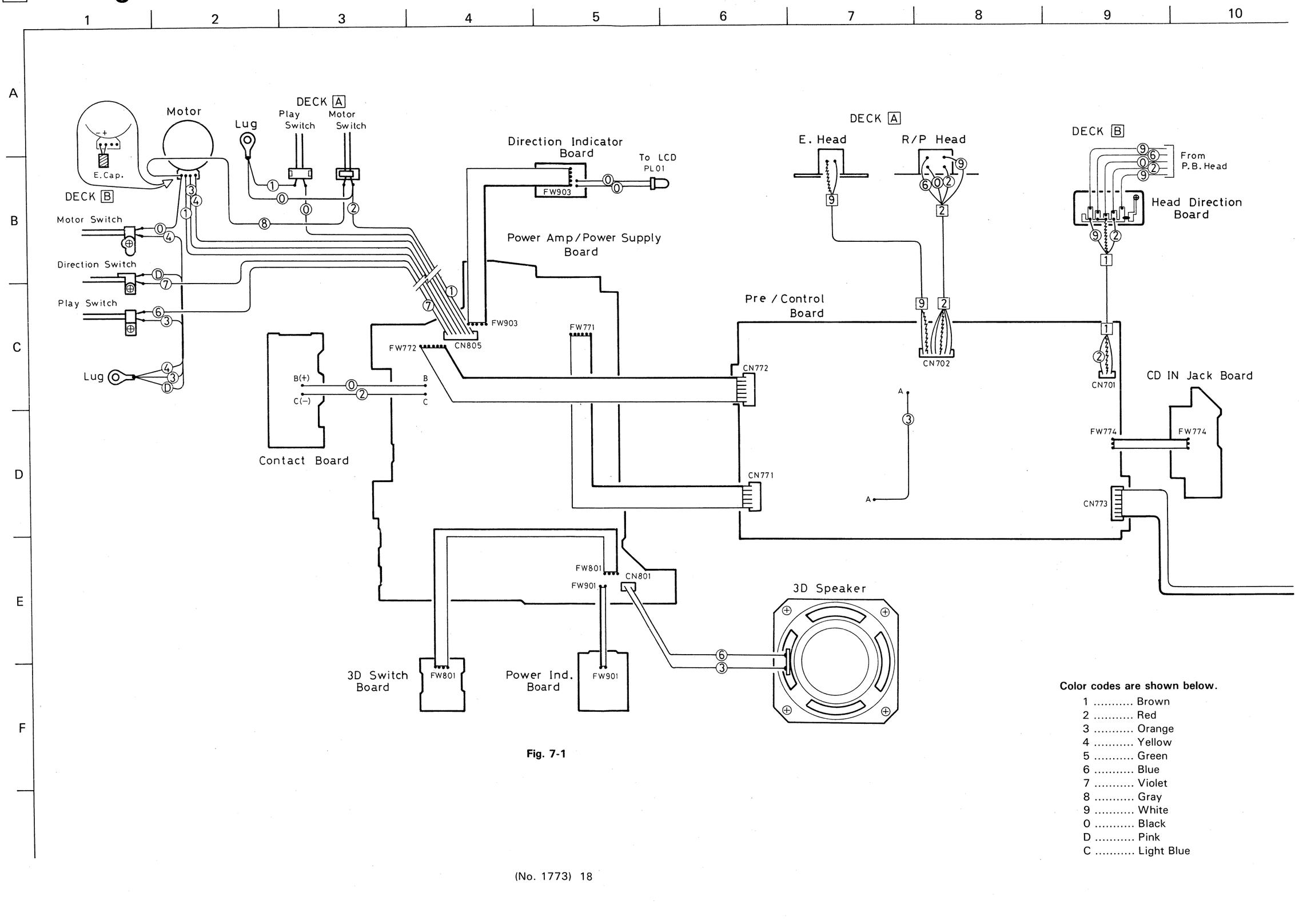


Fig. 7-1

Color codes are shown below.

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Gray
9 ..... White
0 ..... Black
D ..... Pink
C ..... Light Blue

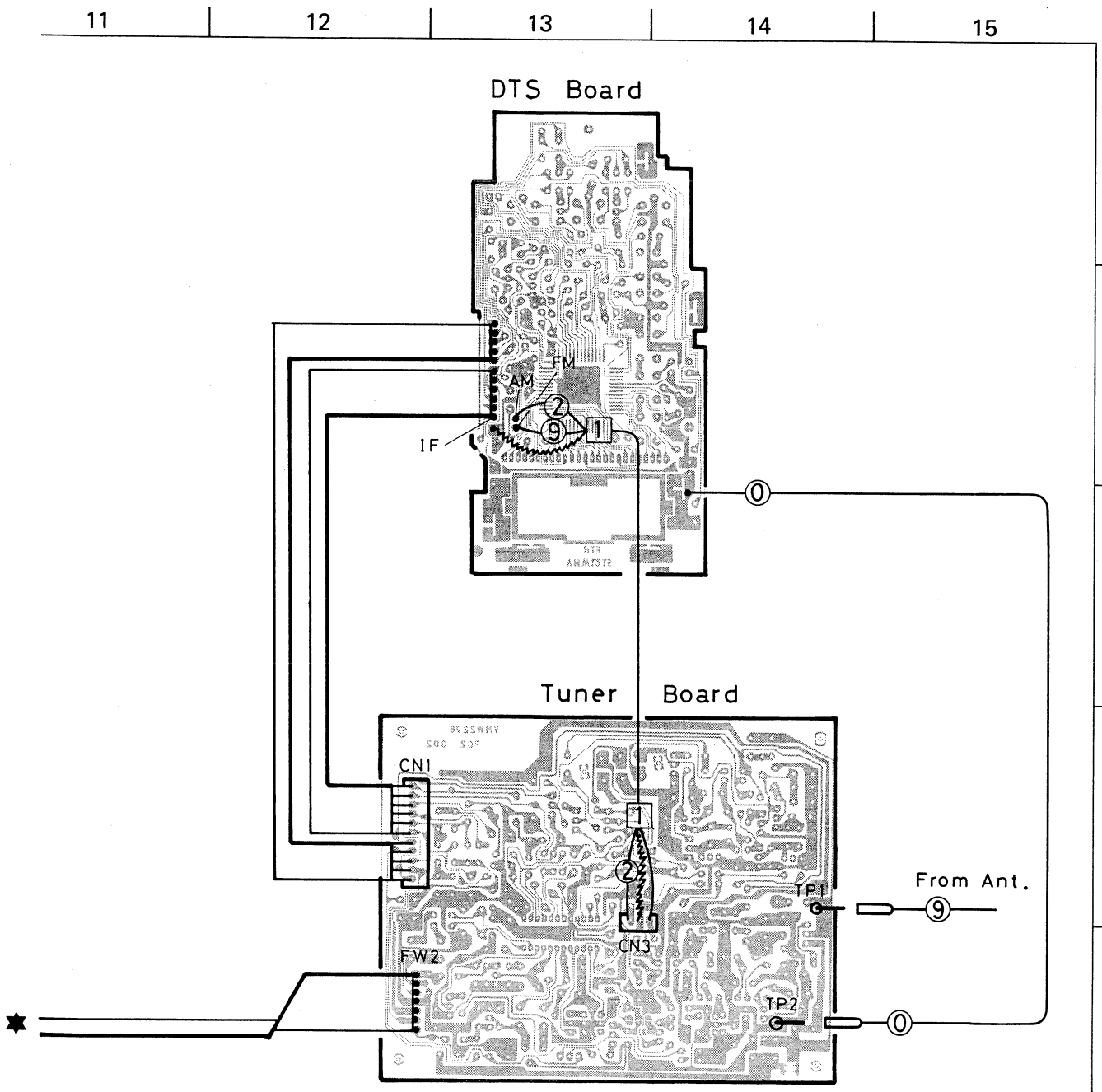

11
12
13
14
15
A
B
C
D
E
F
DTS Board
FM
AM
IF
2
9
1
0
Tuner Board
CN1
1
2
CN3
FW2
TP1
TP2
From Ant.
9
0

Fig. 7-2

8 Location of P.C. Board and Parts List

■ Tuner Board

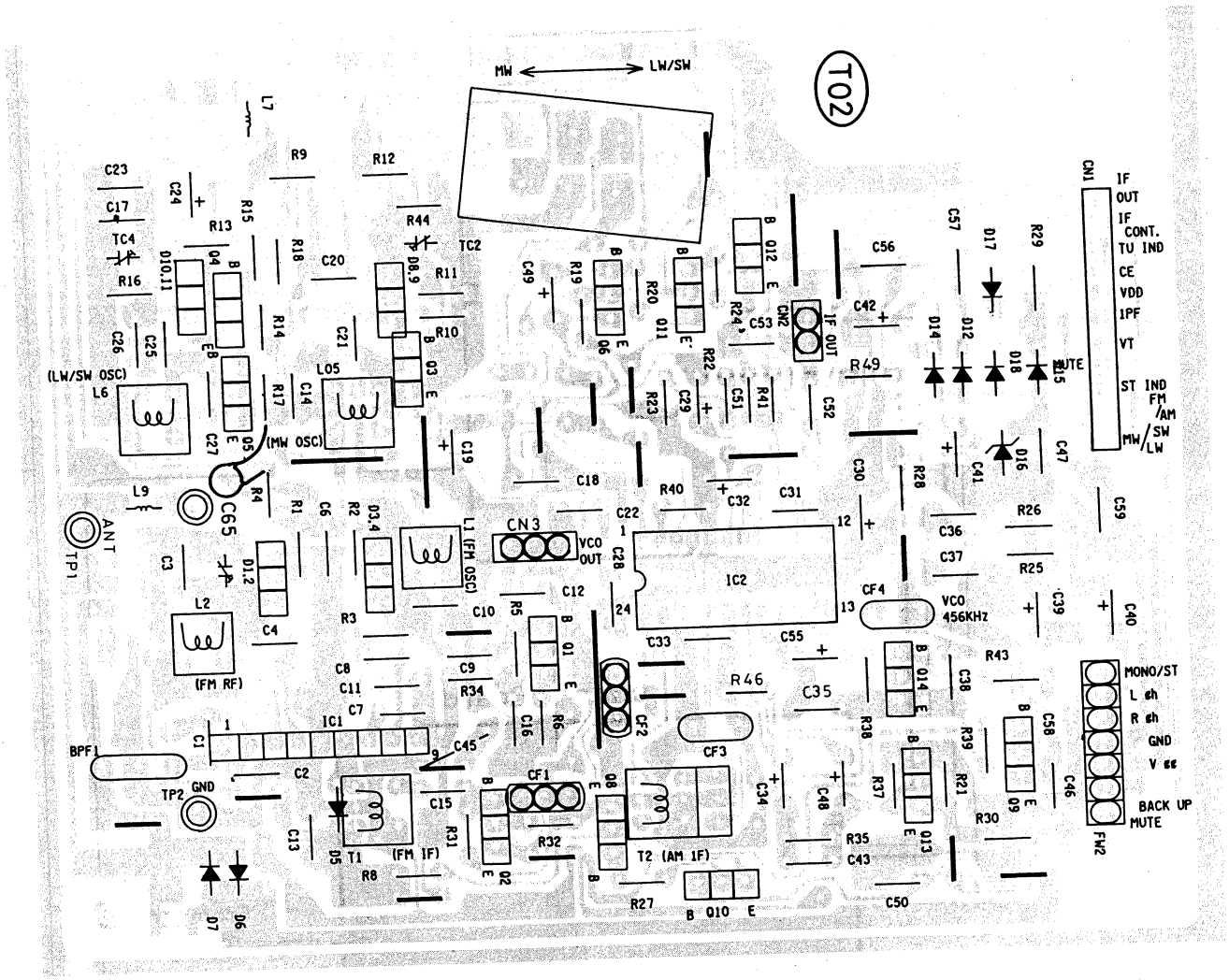


Fig. 8-1

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specifided one.

• Tuner Board Parts List

⚠	REF. NO	PARTS NO.	PARTS NAME
	BPF	VBP4M3B-005	BP FILTER
	CF04	CSB456F18	CERA LOCK
	CN01	VMC0107-011	CONNECTOR
	CN03	QMV5011-003	CONNECTOR
	C001	QCSB1HJ-200Y	C CAPACITOR
	C002	QCBB1HK-102Y	C CAPACITOR
	C003	QCS31HJ-100Z	C.CAPACITOR
	C004	QCSB1HK-5R6Y	C CAPACITOR
	C006	QCC31EM-473ZV	C CAPACITOR
	C007	QCT30CH-100Y	C.CAPACITOR
	C008	QCT30CH-200Y	C.CAPACITOR
	C009	QCT30CH-2R2Y	C.CAPACITOR
	C010	QCT30CH-150Y	C.CAPACITOR
	C011	QCC31EM-103ZV	C CAPACITOR
	C012	QCBB1HK-102Y	C CAPACITOR
	C013	QCC31EM-103ZV	C CAPACITOR
	C015	QCVB1CN-103Y	C.CAPACITOR
	C016	QCC31EM-223ZV	C CAPACITOR
	C017	QCSB1HJ-330Y	C CAPACITOR
	C020	QCC31EM-473ZV	C CAPACITOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	C021	QFS41HJ-391	P.S.CAPACITOR
	C022	QCF31HP-103Z	C.CAPACITOR
	C023	QCS31HJ-8R0Z	C.CAPACITOR
	C024	QETC1HM-104ZN	E.CAPACITOR
	C025	QCSB1HJ-150Y	C.CAPACITOR
	C026	QCS31HJ-221Z	C.CAPACITOR
	C027	QCBB1HK-151Y	C CAPACITOR
	C028	QCC31EM-473ZV	C CAPACITOR
	C029	QETC1HM-475ZN	E.CAPACITOR
	C030	QETC1AM-107ZN	E.CAPACITOR
	C031	QCC31EM-473ZV	C CAPACITOR
	C032	QCC31EM-473ZV	C CAPACITOR
	C033	QCBB1HK-331Y	C.CAPACITOR
	C034	QETC1HM-335ZN	E.CAPACITOR
	C035	QCC31EM-683ZV	C.CAPACITOR
	C036	QCC31EM-153ZV	C.CAPACITOR
	C037	QCC31EM-153ZV	C.CAPACITOR
	C038	QETC1HM-225ZN	E.CAPACITOR
	C039	QETC1HM-104ZN	E.CAPACITOR
	C040	QETC1HM-104ZN	E.CAPACITOR
	C041	QETC0JM-477ZN	E.CAPA.
	C042	VCE0004-002	SUPER CAP.
	C043	QCXB1CM-222Y	C CAPACITOR
	C044	QCBB1HK-151Y	C CAPACITOR
	C045	QCC31EM-223ZV	C CAPACITOR
	C046	QCBB1HK-151Y	C CAPACITOR
	C047	QCC31EM-473ZV	C CAPACITOR
	C048	QETC1HM-105ZN	E.CAPACITOR
	C049	QETC1HM-105ZN	E.CAPACITOR
	C050	QCBB1HK-151Y	C CAPACITOR
	C051	QCVB1CN-103Y	C.CAPACITOR
	C052	QCVB1CN-103Y	C.CAPACITOR
	C053	QCSB1HJ-390Y	C.CAPACITOR
	C055	QETC1HM-104ZN	E.CAPACITOR
	C058	QCBB1HK-151Y	C CAPACITOR
	C059	QCC31EM-473ZV	C CAPACITOR
	C060	QCC31EM-473ZV	C CAPACITOR
	C061	QCT30CH-2R2Y	C.CAPACITOR
	C065	QCS11HJ-151	C.CAPACITOR
	D001	KV1330	VARI CAP
	D002	KV1330	VARI CAP
	D005	MA165-TA5V	SI.DIODE
	D006	KV1250	VARI CAP
	D007	MA165-TA5V	SI.DIODE
	D008	KV1250	VARI CAP
	D009	KV1250	VARI CAP
	D010	KV1250	VARI CAP
	D011	KV1250	VARI CAP
	D012	MA700-TA	ZENER DIODE
	D015	MA165-TA5V	SI.DIODE
	D016	MA4043(M)TA	Z DIODE
	D017	MA165-TA5V	SI.DIODE
	D018	MA165-TA5V	SI.DIODE
	IC01	TA7358P(N)	IC
	IC02	TA8132N	IC
	L001	V03105-029	OSC COIL
	L002	VQF1B12-003	RF COIL
	L003	VQB010B-503	BAR ANTENA
	L004	VQB010B-503	BAR ANTENA
	L005	VQM7U02-401	OSC COIL(MW)
	L006	VQL7U02-501	OSC COIL(LW)
	L009	V03047-17	COIL
	Q001	2SC1923(O)E2	TRANSISTOR
	Q002	2SC1923(O)E2	TRANSISTOR
	Q003	2SC2785(E,F)-T	TRANSISTOR
	Q004	2SC2785(E,F)-T	TRANSISTOR
	Q005	2SC2785(E,F)-T	TRANSISTOR
	Q006	2SC2785(E,F)-T	TRANSISTOR
	Q008	2SA1317(S,T)AC	TRANSISTOR
	Q009	2SA1317(S,T)AC	TRANSISTOR

⚠	REF. NO	PARTS NO.	PARTS NAME
	Q010	2SC2785(E,F)-T	TRANSISTOR
	Q011	2SA1317(S,T)AC	TRANSISTOR
	Q012	2SC2785(E,F)-T	TRANSISTOR
	Q013	2SC2785(E,F)-T	TRANSISTOR
	Q014	2SA1317(S,T)AC	TRANSISTOR
	R001	QRD161J-104YT	C RESISTOR
	R002	QRD161J-104YT	C RESISTOR
	R003	QRD161J-100YT	C RESISTOR
	R004	QRD161J-102YT	C RESISTOR
	R005	QRD161J-823YT	C RESISTOR
	R006	QRD161J-102YT	C RESISTOR
	R008	QRD161J-181YT	C RESISTOR
	R009	QRD161J-102YT	C RESISTOR
	R010	QRD161J-104YT	C RESISTOR
	R011	QRD161J-104YT	C RESISTOR
	R012	QRD161J-103YT	C RESISTOR
	R013	QRD161J-103YT	C RESISTOR
	R014	QRD161J-104YT	C RESISTOR
	R015	QRD161J-103YT	C RESISTOR
	R016	QRD161J-104YT	C RESISTOR
	R017	QRD161J-104YT	C RESISTOR
	R018	QRD161J-103YT	C RESISTOR
	R019	QRD161J-103YT	C RESISTOR
	R020	QRD161J-103YT	C RESISTOR
	R021	QRD161J-104YT	C RESISTOR
	R022	QRD161J-103YT	C RESISTOR
	R023	QRD161J-103YT	C RESISTOR
	R024	QRD161J-103YT	C RESISTOR
	R025	QRD161J-222YT	C RESISTOR
	R026	QRD161J-222YT	C RESISTOR
	R027	QRD161J-103YT	C RESISTOR
	R028	QRD149J-220S	CARBON RESISTOR
	R029	QRD161J-331YT	C RESISTOR
	R030	QRD161J-103YT	C RESISTOR
	R031	QRD161J-154YT	C RESISTOR
	R032	QRD161J-331YT	C RESISTOR
	R035	QRD161J-152YT	C RESISTOR
	R036	QRD161J-103YT	C RESISTOR
	R037	QRD161J-104YT	C RESISTOR
	R038	QRD161J-223YT	C RESISTOR
	R039	QRD161J-103YT	C RESISTOR
	R040	QRD161J-222YT	C RESISTOR
	R041	QRD161J-103YT	C RESISTOR
	R043	QRD161J-103YT	C RESISTOR
	R044	QRD161J-334YT	C RESISTOR
	R045	QRD161J-104YT	C RESISTOR
	R046	QRD161J-683YT	C RESISTOR
	R047	QRD161J-472YT	C RESISTOR
	R048	QRD161J-102YT	C RESISTOR
	R049	QRD161J-102YT	C RESISTOR
	TC01	QAT3620-100M	T CAPACITOR
	TC02	QAT3620-100M	T CAPACITOR
	TC03	QAT3620-100M	T CAPACITOR
	TC04	QAT3620-200M	T CAPACITOR
	TU	KMFC481-A	C FILTER KIT
	T001	VQT7F12-111	IFT
	T002	VQT7A21-105	IFT

• DTS Board

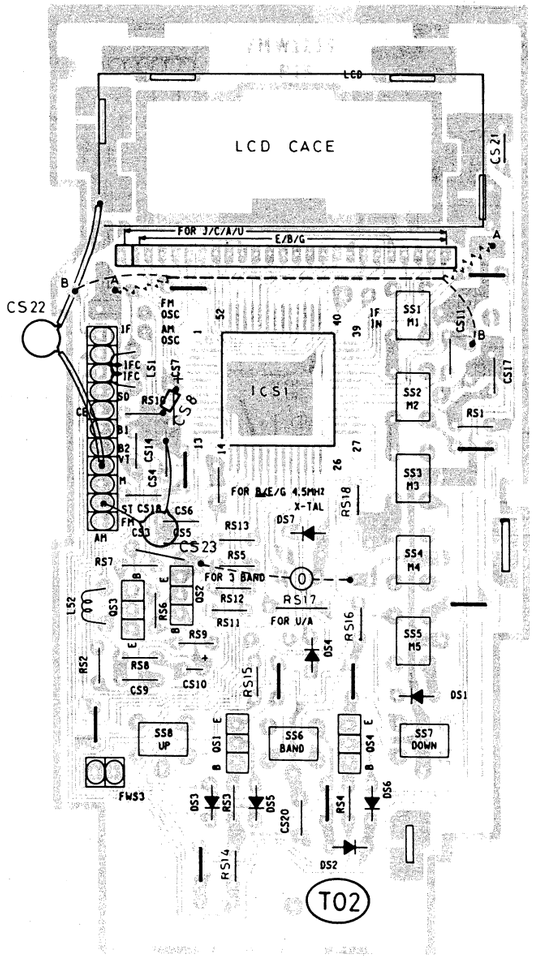


Fig. 8-2

• DTS Board Parts List

⚠ parts are safety assurnace parts. When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CS03	QCC11EM-473V	C.CAPACITOR
	CS04	QCVB1CM-103Y	C CAPACITOR
	CS05	QCSB1HJ-360Y	C CAPACITOR
	CS06	QCT30CH-220Y	C CAPACITOR
	CS07	QFV71HJ-224ZM	TF CAPACITOR
	CS08	NEF11AM-105LY	TS E CAPACITOR
	CS09	QCXB1CM-562Y	C CAPACITOR
	CS10	QERF1HM-225ZM	E CAPACITOR
	CS11	QCVB1CM-103Y	C CAPACITOR
	CS14	QCC31EM-473ZV	C CAPACITOR
	CS17	QCBB1HK-151Y	C CAPACITOR
	CS18	QCBB1HK-102Y	C CAPACITOR
	CS20	QCC31EM-473ZV	C CAPACITOR
	CS21	QCBB1HK-151Y	C CAPACITOR
	CS22	QCS11HJ-151	C.CAPACITOR
	CS23	QCBB1HK-151Y	C CAPACITOR
	DS01	MA165-TA5V	SI.DIODE
	DS02	MA165-TA5V	SI.DIODE
	DS03	MA165-TA5V	SI.DIODE
	DS04	MA165-TA5V	SI.DIODE
	DS05	MA165-TA5V	SI.DIODE
	DS06	MA165-TA5V	SI.DIODE
	DS07	MA165-TA5V	SI.DIODE
	DS08	MA165-TA5V	SI.DIODE
	ICS1	UPD1713AG-620	IC
	LCD	VGL1035-002	LCD
	LS01	VQP0012-471	INDUCTOR
	LS02	VQP0012-471	INDUCTOR
	QS01	2SA1317(S,T)AC	TRANSISTOR
	QS02	2SC2785(E,F)-T	TRANSISTOR
	QS03	2SC2785(E,F)-T	TRANSISTOR
	QS04	2SA1317(S,T)AC	TRANSISTOR
	RS01	QRD161J-223YT	C RESISTOR
	RS02	QRD161J-152YT	C RESISTOR
	RS03	QRD161J-223YT	C RESISTOR
	RS04	QRD161J-223YT	C RESISTOR
	RS05	QRD161J-223YT	C RESISTOR
	RS06	QRD161J-332YT	C RESISTOR
	RS07	QRD161J-222Y	CARBON RESISTOR
	RS08	QRD161J-222YT	C RESISTOR
	RS09	QRD161J-471YT	C RESISTOR
	RS10	QRD161J-474Y	CARBON RESISTOR
	RS11	QRD161J-223YT	C RESISTOR
	RS12	QRD161J-223YT	C RESISTOR
	RS13	QRD161J-473YT	C RESISTOR
	RS14	QRD161J-102Y	CARBON RESISTOR
	RS15	QRD161J-223Y	CARBON RESISTOR
	RS16	QRD161J-102Y	CARBON RESISTOR
	RS17	QRD161J-223	CARBON RESISTOR
	RS18	QRD161J-223Y	CARBON RESISTOR
	SS01	QSP4H11-V03	TACT SWITCH
	SS02	QSP4H11-V03	TACT SWITCH
	SS03	QSP4H11-V03	TACT SWITCH
	SS04	QSP4H11-V03	TACT SWITCH
	SS05	QSP4H11-V03	TACT SWITCH
	SS06	QSP4H11-V03	TACT SWITCH
	SS07	QSP4H11-V03	TACT SWITCH
	SS08	QSP4H11-V03	TACT SWITCH
	X	V472124-A0	CRYSTAL
	X-TAL	V472124-A0	CRYSTAL

■ Main Board

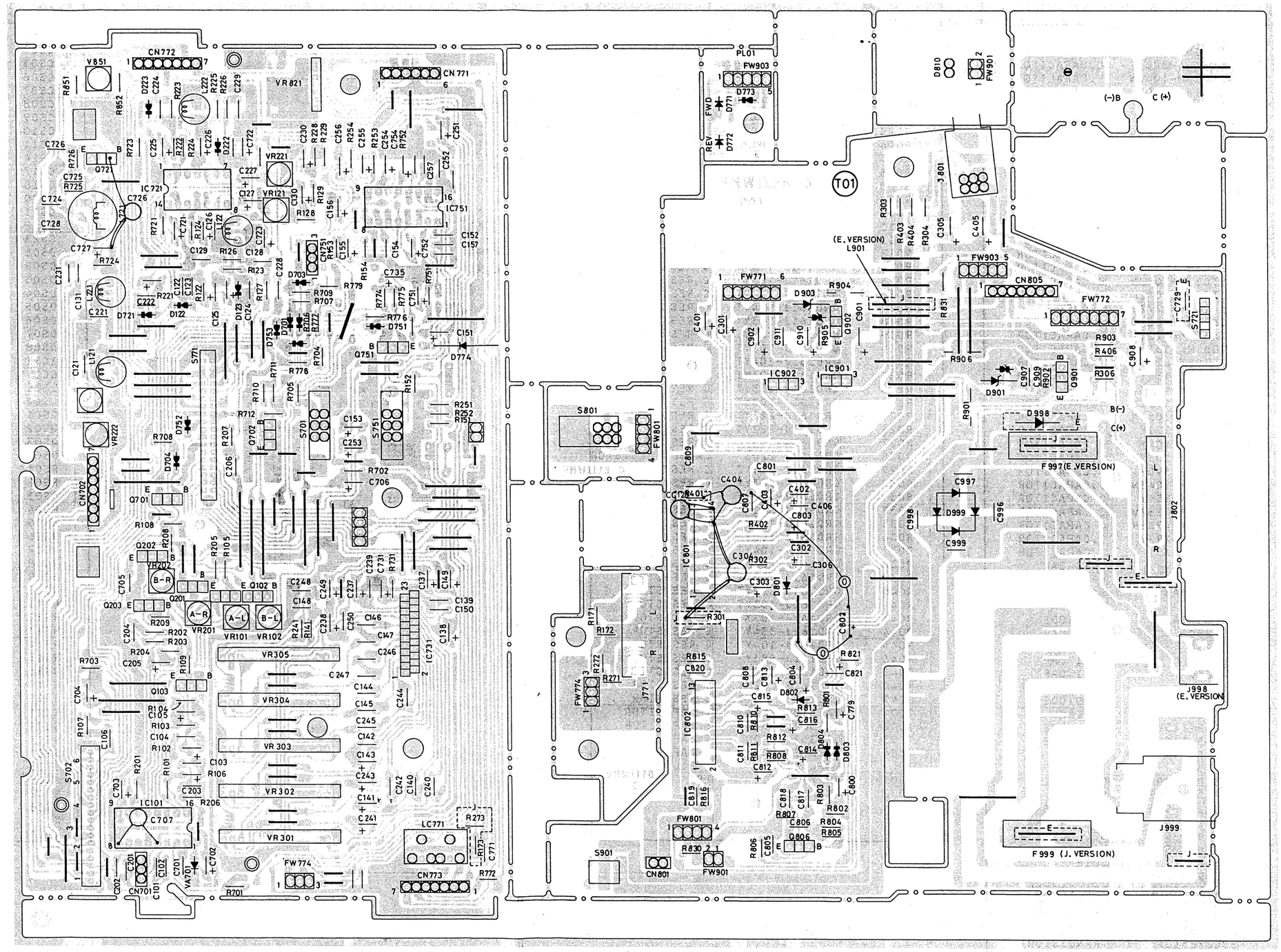


Fig. 8-3

• Main Board Parts List

⚠ parts are safety assurnace parts.
When replacing those parts, make sure to use the specified one.

⚠	REF. NO	PARTS NO.	PARTS NAME
	CN701	QMV5011-003	CONNECTOR
	CN702	QMV5012-007	CONNECTOR
	CN751	QMV5011-003	CONNECTOR
	CN771	VMC0107-006	SOCKET
	CN772	VMC0107-007	SOCKET
	CN773	VMC0107-007	SOCKET
	CN801	QMV5011-002	CONNECTOR
	CN851	QMV5011-007	CONNECTOR
	C101	QCBB1HK-561Y	C.CAPACITOR
	C102	QCBB1HK-561Y	C.CAPACITOR
	C103	QETC1AM-107ZN	E.CAPACITOR
	C104	QCC31EM-123ZV	C.CAPACITOR
	C105	QETC1HM-335ZN	E.CAPACITOR
	C106	QCC31EM-333ZV	C.CAPACITOR
	C121	QCBB1HK-561Y	C.CAPACITOR
	C122	QCBB1HK-102Y	C CAPACITOR
	C123	QETC1HM-335ZN	E.CAPACITOR
	C124	QCC31EM-104ZV	C CAPACITOR
	C125	QETC1HM-335ZN	E.CAPACITOR
	C126	QETC1AM-476ZN	E.CAPACITOR
	C127	QETC1HM-105ZN	E.CAPACITOR
	C128	QCC31EM-123ZV	C.CAPACITOR
	C129	QCY31HK-822Z	C.CAPACITOR
	C130	QETC1HM-224ZN	E.CAPACITOR
	C131	QCBB1HK-331Y	C.CAPACITOR
	C137	QETC1HM-104ZN	E.CAPACITOR
	C138	QETC1HM-475ZN	E.CAPACITOR
	C139	QCBB1HK-221Y	C.CAPACITOR
	C140	QCC31EM-473ZV	C CAPACITOR
	C141	QER61HM-105ZM	E CAPACITOR
	C142	QCC31EM-103ZV	C CAPACITOR
	C143	QER61HM-474ZM	E CAPACITOR
	C144	QCY31HK-472Z	C.CAPACITOR
	C145	QCC31EM-104ZV	C CAPACITOR
	C146	QCY31HK-122Z	C.CAPACITOR
	C147	QCC31EM-473ZV	C CAPACITOR
	C148	QCC31EM-333ZV	C.CAPACITOR
	C149	QETC1HM-475ZN	E.CAPACITOR
	C150	QCBB1HK-102Y	C CAPACITOR
	C151	QETC1HM-335ZN	E.CAPACITOR
	C152	QCBB1HK-561Y	C.CAPACITOR
	C153	QETC1HM-224ZN	E.CAPACITOR
	C154	QFV71HJ-224ZM	TF CAPACITOR
	C155	QETC1HM-335ZN	E.CAPACITOR
	C156	QETC1HM-335ZN	E.CAPACITOR
	C157	QCBB1HK-221Y	C.CAPACITOR
	C201	QCBB1HK-561Y	C.CAPACITOR
	C202	QCBB1HK-561Y	C.CAPACITOR
	C203	QETC1AM-107ZN	E.CAPACITOR
	C204	QCC31EM-123ZV	C.CAPACITOR
	C205	QETC1HM-335ZN	E.CAPACITOR
	C206	QCC31EM-333ZV	C.CAPACITOR
	C221	QCBB1HK-561Y	C.CAPACITOR
	C222	QCBB1HK-102Y	C CAPACITOR
	C223	QETC1HM-335ZN	E.CAPACITOR
	C224	QCC31EM-104ZV	C CAPACITOR
	C225	QETC1HM-335ZN	E.CAPACITOR
	C226	QETC1AM-476ZN	E.CAPACITOR
	C227	QETC1HM-105ZN	E.CAPACITOR
	C228	QCC31EM-123ZV	C.CAPACITOR
	C229	QCY31HK-822Z	C.CAPACITOR
	C230	QETC1HM-224ZN	E.CAPACITOR
	C231	QCBB1HK-331Y	C.CAPACITOR
	C237	QETC1HM-104ZN	E.CAPACITOR
	C239	QCBB1HK-221Y	C.CAPACITOR
	C240	QCC31EM-473ZV	C CAPACITOR
	C241	QER61HM-105ZM	E CAPACITOR
	C242	QCC31EM-103ZV	C CAPACITOR
	C243	QER61HM-474ZM	E CAPACITOR
	C244	QCY31HK-472Z	C.CAPACITOR
	C245	QCC31EM-104ZV	C CAPACITOR
	C246	QCY31HK-122Z	C.CAPACITOR
	C247	QCC31EM-473ZV	C CAPACITOR
	C248	QCC31EM-333ZV	C.CAPACITOR
	C249	QETC1HM-475ZN	E.CAPACITOR
	C250	QCBB1HK-102Y	C CAPACITOR
	C251	QETC1HM-335ZN	E.CAPACITOR
	C252	QCBB1HK-561Y	C.CAPACITOR
	C253	QETC1HM-224ZN	E.CAPACITOR
	C254	QFV71HJ-224ZM	TF CAPACITOR
	C255	QETC1HM-335ZN	E.CAPACITOR
	C256	QETC1HM-335ZN	E.CAPACITOR
	C257	QCBB1HK-221Y	C.CAPACITOR
	C301	QETC1HM-104ZN	E.CAPACITOR
	C302	QETC1AM-476ZN	E.CAPACITOR
	C303	QETC1AM-476ZN	E.CAPACITOR
	C304	QCC11EM-104V	C CAPACITOR
	C305	QETC1AM-477ZN	E.CAPACITOR
	C306	QCY41HK-122	C.CAPACITOR
	C401	QETC1HM-104ZN	E.CAPACITOR
	C402	QETC1AM-476ZN	E.CAPACITOR
	C403	QETC1AM-476ZN	E.CAPACITOR
	C404	QCC11EM-104V	C CAPACITOR
	C405	QETC1AM-477ZN	E.CAPACITOR
	C406	QCY41HK-122	C.CAPACITOR
	C701	QCC31EM-223ZV	C CAPACITOR
	C702	QETC1AM-107ZN	E.CAPACITOR
	C703	QETC1CM-106ZN	E.CAPACITOR
	C704	QETC1CM-106ZN	E.CAPACITOR
	C705	QCC31EM-223ZV	C CAPACITOR
	C706	QETC1CM-106ZN	E.CAPACITOR
	C707	QCS11HJ-221	C.CAPACITOR
	C721	QETC1AM-476ZN	E.CAPACITOR
	C722	QETC1CM-106ZN	E.CAPACITOR
	C723	QETC1AM-476ZN	E.CAPACITOR
	C724	QFV71HJ-333ZM	TF.CAPACITOR
	C725	QCY31HK-472Z	C.CAPACITOR
	C726	QCC11EM-223V	C.CAPACITOR
	C727	QETC1HM-106ZN	E.CAPACITOR
	C728	QFV71HJ-124ZM	TF.CAPACITOR
	C729	QFN31HJ-273Z	M CAPACITOR
	C731	QETC1AM-227ZN	E CAPACITOR
	C751	QETC1AM-227ZN	E CAPACITOR
	C752	QETC1HM-335ZN	E.CAPACITOR
	C753	QER61CM-106ZM	E.CAPACITOR
	C754	QER61CM-106ZM	E.CAPACITOR
	C771	QCBB1HK-221Y	C.CAPACITOR
	C799	QETC1HM-105ZN	E.CAPACITOR
	C800	QETC1HM-104ZN	E.CAPACITOR
⚠	C801	QCY31HK-122Z	C.CAPACITOR
⚠	C802	QETB1EM-228N	E CAPACITOR
⚠	C803	QETC1EM-476ZN	E.CAPACITOR
⚠	C804	QETC1EM-227ZN	E CAPACITOR
	C805	QCC31EM-273ZV	C.CAPACITOR
	C806	QCC31EM-683ZV	C.CAPACITOR
	C807	QETB1CM-337N	E CAPACITOR
	C808	QFV71HJ-104ZM	TF.CAPACITOR
	C809	QCC31EM-223ZV	C CAPACITOR
	C810	QCVB1CM-103Y	C CAPACITOR
	C811	QCVB1CM-103Y	C CAPACITOR
	C812	QETC1AM-476ZN	E.CAPACITOR
	C813	QETC1AM-476ZN	E.CAPACITOR
	C814	QETC1AM-476ZN	E.CAPACITOR
	C815	QETC1AM-476ZN	E.CAPACITOR
	C816	QETC1EM-227ZN	E CAPACITOR
	C817	QCC31EM-104ZV	C CAPACITOR
	C818	QCC31EM-104ZV	C CAPACITOR
	C819	QCC31EM-104ZV	C CAPACITOR
	C820	QCC31EM-104ZV	C CAPACITOR
	C821	QETC1AM-227ZN	E CAPACITOR
	C822	QCC11EK-123ZV	C CAPACITOR
	C901	QETC1AM-477ZN	E.CAPACITOR
	C902	QETC1AM-477ZN	E.CAPACITOR
	C907	QFV81HJ-224	TF.CAPACITOR
	C908	QETC1EM-226ZN	E CAPACITOR
	C909	QCBB1HK-221Y	C.CAPACITOR
	C910	QETC1AM-477ZN	E.CAPACITOR
	C911	QCVB1CM-103Y	C CAPACITOR
⚠	C996	QFV71HJ-104ZM	TF.CAPACITOR
⚠	C997	QFV71HJ-104ZM	TF.CAPACITOR
⚠	C998	QFV71HJ-104ZM	TF.CAPACITOR
⚠	C999	QFV71HJ-104ZM	TF.CAPACITOR
	D122	MA165-TA5V	SI.DIODE
	D123	MA165-TA5V	SI.DIODE
	D222	MA165-TA5V	SI.DIODE
	D223	MA165-TA5V	SI.DIODE
	D701	MA165-TA5V	SI.DIODE
	D702	MA165-TA5V	SI.DIODE
	D703	MA165-TA5V	SI.DIODE
	D704	MA165-TA5V	SI.DIODE
	D705	MA165-TA5V	SI.DIODE
	D721	MA165-TA5V	SI.DIODE
	D751	MA165-TA5V	SI.DIODE
	D752	MA165-TA5V	SI.DIODE
	D753	MA700-TA	ZENER DIODE
	D771	SLR-34VR70F124	LED I.M
	D772	SLR-34VR70F124	LED I.M
	D773	1SS254T-77	SI DIODE
	D774	MA700	S.B.DIODE
	D801	1SR35-100AT-93	SI DIODE
	D802	1SR35-100AT-93	SI DIODE
	D803	MA700-TA	ZENER DIODE
	D804	MA700-TA	ZENER DIODE
	D810	LR-1140VC	L.E.D.
	D901	MA4082(M)TA	Z DIODE
	D903	MA4062(H)TA	Z DIODE
	D998	1N5401M	DIODE
⚠	D999	S4VB10-4002	SI DIODE
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	IC721	LA3220	IC
	IC731	BA3823LS	IC
	IC751	HA12134	IC
⚠	IC801	UPC1335V	IC
⚠	IC802	UPC1335V	IC
⚠	IC901	AN78M10	I.C
⚠	IC902	AN78N07	I.C
	J771	VMJ3009-002	JACK ASSY
	J801	QMS3507-001H	JACK
	J802	EMB90YV-401A	SPK.TERMINAL
	J998	QMA1221-004	DC JACK
	J999	QMC0362-002	AC SOCKET
	LC771	EQF0101-002	FILTER
	L121	VQP0001-103S	INDUCTOR
	L122	VQP0001-562S	INDUCTOR
	L221	VQP0001-103S	INDUCTOR
	L222	VQP0001-562S	INDUCTOR
	L721	VQH1009-026	OSC COIL
	L901	T41572-001	CHOKE COIL
	PL01	VGZ0001-028	P.LAMP
	Q101	2SC2785(HFE)-T	TRANSISTOR
	Q102	2SC2785(HFE)-T	TRANSISTOR
	Q103	2SC2785(HFE)-T	TRANSISTOR
	Q201	2SC2785(HFE)-T	TRANSISTOR
	Q202	2SC2785(HFE)-T	TRANSISTOR
	Q203	2SC2785(HFE)-T	TRANSISTOR
	Q701	2SC2785(HFE)-T	TRANSISTOR
	Q702	2SC2785(HFE)-T	TRANSISTOR
	Q721	2SC2785(HFE)-T	TRANSISTOR
	Q751	2SA1175(HFE)-T	TRANSISTOR
	Q801	2SC2785(HFE)-T	TRANSISTOR
⚠	Q901	2SC2001(L,K)-T	TRANSISTOR
⚠	Q902	2SD882(Q,P)	T.R (ﾌﾘｰｸﾀｲﾌﾟ)
	R101	QRD161J-334YT	C RESISTOR
	R102	QRD161J-682YT	C RESISTOR
	R103	QRD161J-562YT	C RESISTOR
	R104	QRD161J-682YT	C RESISTOR
	R105	QRD161J-103YT	C RESISTOR
	R106	QRD161J-101Y	CARBON RESISTOR
	R107	QRD161J-332YT	C RESISTOR
	R108	QRD161J-103YT	C RESISTOR
	R109	QRD161J-104Y	CARBON RESISTOR
	R121	QRD161J-123YT	C RESISTOR
	R122	QRD161J-681YT	C RESISTOR
	R123	QRD161J-822Y	CARBON RESISTOR
	R124	QRD161J-683YT	C RESISTOR
	R125	QRD161J-102YT	C RESISTOR
	R126	QRD161J-121YT	C RESISTOR
	R127	QRD161J-221YT	C RESISTOR
	R128	QRD161J-562Y	CARBON RESISTOR
	R129	QRD161J-683Y	CARBON RESISTOR
	R141	QRD161J-681YT	C RESISTOR
	R151	QRD161J-333YT	C RESISTOR
	R152	QRD161J-333Y	CARBON RESISTOR
	R153	QRD161J-273YT	C RESISTOR
	R154	QRD161J-682YT	C RESISTOR
	R171	QRD161J-563YT	C RESISTOR
	R172	QRD161J-822YT	C RESISTOR
	R173	QRD161J-103YT	C RESISTOR
	R201	QRD161J-334YT	C RESISTOR
	R202	QRD161J-682YT	C RESISTOR
	R203	QRD161J-562YT	C RESISTOR
	R204	QRD161J-682YT	C RESISTOR
	R205	QRD161J-103YT	C RESISTOR
	R206	QRD161J-101Y	CARBON RESISTOR
	R207	QRD161J-332YT	C RESISTOR
	R208	QRD161J-103YT	C RESISTOR
	R209	QRD161J-104Y	CARBON RESISTOR
	R221	QRD161J-123YT	C RESISTOR
	R222	QRD161J-681YT	C RESISTOR
	R223	QRD161J-822Y	CARBON RESISTOR
	R224	QRD161J-683YT	C RESISTOR
	R225	QRD161J-102YT	C RESISTOR
	R226	QRD161J-121YT	C RESISTOR
	R227	QRD161J-221YT	C RESISTOR
	R228	QRD161J-562Y	CARBON RESISTOR
	R229	QRD161J-683Y	CARBON RESISTOR
	R241	QRD161J-681YT	C RESISTOR
	R251	QRD161J-333YT	C RESISTOR
	R252	QRD161J-333Y	CARBON RESISTOR
	R253	QRD161J-273YT	C RESISTOR
	R254	QRD161J-682YT	C RESISTOR
	R271	QRD161J-563YT	C RESISTOR
	R272	QRD161J-822YT	C RESISTOR
	R273	QRD161J-103YT	C RESISTOR
⚠	R301	QRD161J-6R8	CARBON RESISTOR
	R302	QRD161J-331YT	C RESISTOR
	R303	QRD161J-222YT	C RESISTOR
	R304	QRD143J-181S	CARBON RESISTOR
	R306	QRD161J-102Y	CARBON RESISTOR
⚠	R401	QRD161J-6R8	CARBON RESISTOR
	R402	QRD161J-331YT	C RESISTOR
	R403	QRD161J-222YT	C RESISTOR
	R404	QRD143J-181S	CARBON RESISTOR
	R406	QRD161J-102Y	CARBON RESISTOR
	R701	QRD161J-102YT	C RESISTOR
	R702	QRD161J-103Y	CARBON RESISTOR
	R703	QRD161J-223YT	C RESISTOR
	R704	QRD161J-333YT	C RESISTOR
	R705	QRD161J-153Y	CARBON RESISTOR
	R706	QRD161J-472YT	C RESISTOR
	R707	QRD161J-472YT	C RESISTOR
	R708	QRD161J-103YT	C RESISTOR
	R709	QRD161J-103YT	C RESISTOR
	R710	QRD161J-103YT	C RESISTOR
	R711	QRD161J-392YT	C RESISTOR
	R712	QRD161J-392YT	C RESISTOR
	R721	QRD161J-101YT	C RESISTOR
	R722	QRD161J-475YT	C RESISTOR
	R723	QRD143J-470S	CARBON RESISTOR
	R724	QRD143J-3R3S	CARBON RESISTOR
	R725	QRD161J-223YT	C RESISTOR
	R726	QRD161J-101YT	C RESISTOR
	R731	QRD161J-221YT	C RESISTOR
	R751	QRD161J-101YT	C RESISTOR
	R752	QRD161J-183YT	C RESISTOR
	R753	QRD161J-471YT	C RESISTOR
	R772	QRD161J-103YT	C RESISTOR
	R773	QRD161J-183Y	CARBON RESISTOR
	R774	QRD161J-103Y	CARBON RESISTOR
	R775	QRD161J-153Y	CARBON RESISTOR
	R776	QRD161J-103YT	C RESISTOR
	R777	QRD161J-471Y	CARBON RESISTOR
	R778	QRD161J-103Y	CARBON RESISTOR
	R779	QRD161J-473Y	CARBON RESISTOR
	R801	QRD161J-563YT	C RESISTOR
	R802	QRD161J-104YT	C RESISTOR
	R803	QRD161J-104YT	C RESISTOR
	R804	QRD161J-393YT	C RESISTOR
	R805	QRD161J-393YT	C RESISTOR
	R806	QRD161J-102YT	C RESISTOR
	R807	QRD161J-102YT	C RESISTOR
	R808	QRD161J-393YT	C RESISTOR
	R809	QRD161J-393YT	C RESISTOR
	R810	QRD161J-563YT	C RESISTOR
	R811	QRD161J-563YT	C RESISTOR
	R812	QRD161J-101YT	C RESISTOR
	R813	QRD161J-101YT	C RESISTOR
	R815	QRD161J-2R2YT	C RESISTOR
	R816	QRD161J-2R2YT	C RESISTOR
	R821	QRD161J-222YT	C RESISTOR
	R830	QRD161J-122YT	C RESISTOR
	R831	QRD161J-222YT	C RESISTOR
	R851	QRD161J-392YT	C RESISTOR
	R852	QRD161J-222YT	C RESISTOR
⚠	R901	QRZ0052-4R7	F.RESISTOR
	R902	QRD161J-102YT	C RESISTOR
	R903	QRD161J-562YT	C RESISTOR
⚠	R904	QRZ0052-4R7	F.RESISTOR
	R905	QRD161J-681YT	C RESISTOR
⚠	R906	QRZ0052-220	CARBON RESISTOR
	S701	QSS7A22-V07	SLIDE SWITCH
	S702	QSS1G62-V01	SLIDE SWITCH
	S721	QSS1301-101	SLIDE SWITCH
	S751	QSS7A22-V07	SLIDE SWITCH
	S771	QSS1N64-V01	SLIDE SW
	S801	QSTM101-V05	PUSH SW
⚠	S901	QST2101-V06	PUSH SWITCH
	VA701	KB262	VARISTOR
	VR101	QVPA601-103M	V RESISTOR
	VR102	QVPA601-203M	SEMI.V.RESISTOR
	VR121	QVPA601-103M	V RESISTOR
	VR122	QVPA601-104M	V.RESISTOR
	VR201	QVPA601-103M	V RESISTOR
	VR202	QVPA601-203M	SEMI.V.RESISTOR
	VR221	QVPA601-103M	V RESISTOR
	VR222	QVPA601-104M	V.RESISTOR
	VR301	QVXB1JG-V15	V.RESISTOR
	VR302	QVXB1JG-V15	V.RESISTOR
	VR303	QVXB1JG-V15	V.RESISTOR
	VR304	QVXB1JG-V15	V.RESISTOR
	VR305	QVXB1JG-V15	V.RESISTOR
	VR821	QVDB46A-V01M	V RESISTOR
	VR851	QVPA601-202M	V RESISTOR

9 Exploded View of Enclosure Assembly ■ PC-V88 Unit Section

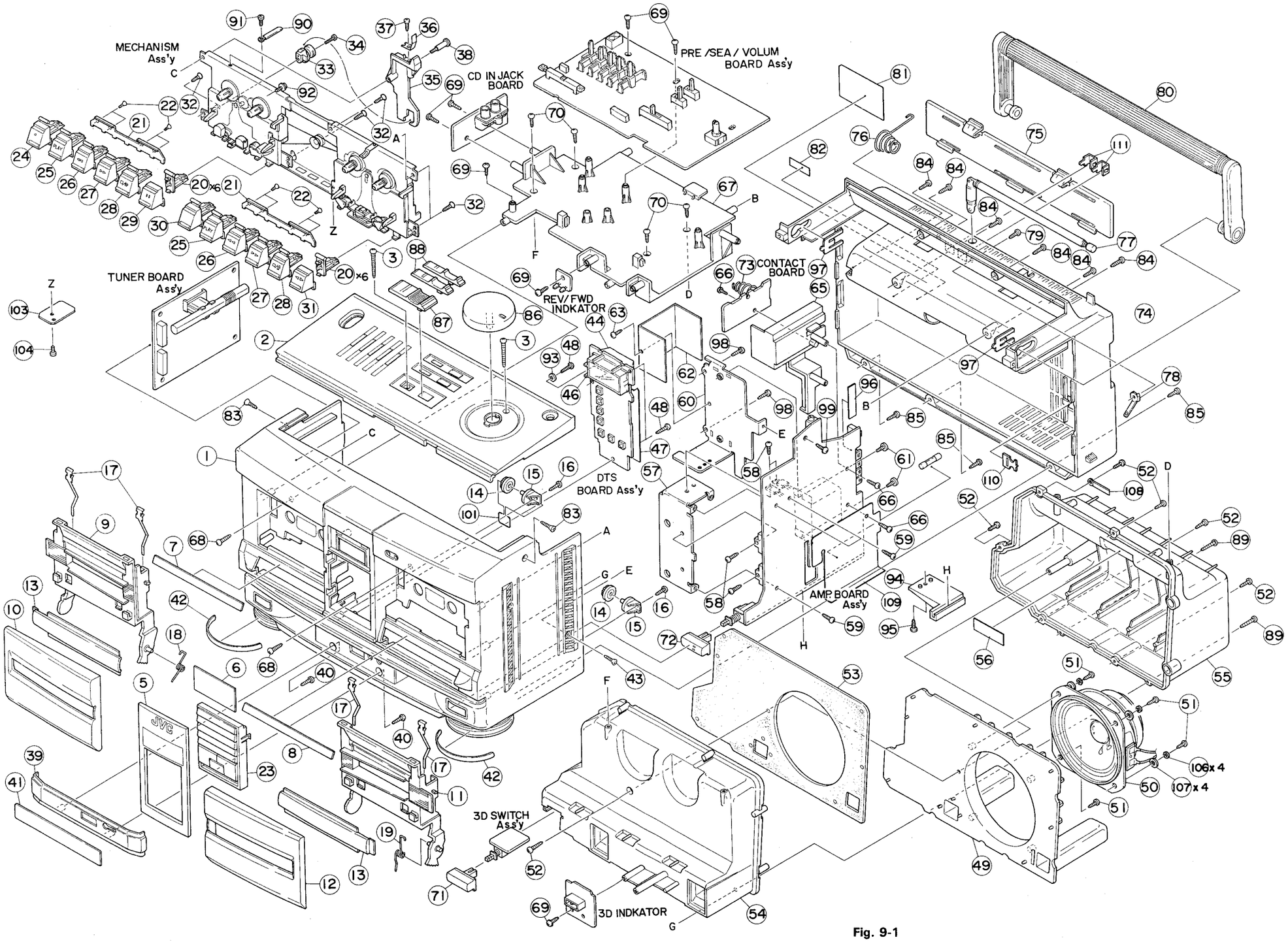


Fig. 9-1

⚠ parts are safety assurnace parts.

• Enclosure Assembly Parts List When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VJC1823-002	FRONT CABINET		1
	2	VJC1825-002	TOP PANEL	PC-V88E/B	1
	2	VJC1825-003	TOP PANEL	PC-88 G	1
	3	SBSF3025Z	SCREW	TOP+CHASSIS	2
	5	VJD3801-001	LCD LENS (A)		1
	6	VJD5226-001	LCD LENS (B)		1
	7	VJD5227-001	MECHA PLATE		1
	8	VJD5227-003	MECHA PLATE		1
	9	VJT2221-001	DOOR HOLDER		1
	10	VJT2222-001	DOOR COVER		1
	11	VJT2221-002	DOOR HOLDER		1
	12	VJT2222-002	DOOR COVER		1
	13	VJT4168-001	DOOR LENS		2
	14	VYH5601-001	GEAR		2
	15	VYH5602-001	DAMPER HOLDER		2
	16	GBSF3012Z	SCREW	GEAR+CABINET	2
	17	VKY4180-001	CASSETTE SPRING		4
	18	VYH7009-001	DOOR SPRING		1
	19	VYH7010-001	DOOR SPRING		1
	20	VKS4843-002	BUTTON LEVER		12
	21	VKL6107-002	BUTTON BRACKET		2
	22	SSSF2606Z	SCREW	BRACKET+CABINET	8
	23	VXP3332-00A	TUNER BUTTON	1	1
	24	VXP3267-009	MECHA BUTTON	REC	1
	25	VXP3267-002	MECHA BUTTON	PLAY	2
	26	VXP3267-003	MECHA BUTTON	REW	2
	27	VXP3267-004	MECHA BUTTON	FF	2
	28	VXP3267-005	MECHA BUTTON	STOP/EJECT	2
	29	VXP3267-006	MECHA BUTTON	PAUSE	1
	30	VXP3267-007	MECHA BUTTON	MODE	1
	31	VXP3267-008	MECHA BUTTON	DIRECTION	1
	32	SSSF3012Z	SCREW	CABI+MECHA	5
	33	VYH6727-002	COLLAR	MECHA	1
	34	SDST2614Z	SCREW		1
	35	VYH3539-001	REC LEVER		1
	36	VYH7011-001	REC SPRING		1
	37	SBSF2610Z	SCREW	LEVER+SPRING	1
	38	VKZ4380-005	SPECIAL SCREW		1
	39	VJD3803-001	3D ORNAMENT		1
	40	SBSF3012Z	SCREW		2
	41	VJK4349-002	3D LENS		1
	42	VJD5230-001	FOOT BELT		2
	43	SDST2605Z	SCREW		2
	44	VYH7021-002	CASE		1
	46	VYH7072-001	CASE (A)		1
	48	GBSF3010Z	TAPPING SCREW		3
	49	VYH2240-001	3D BASE		1
	50	EAS10PL429G1	SPEAKER		1
	51	SBSF3012Z	SCREW	SPEAKER+BASE	4
	52	SBSF3020Z	SCREW	COVER+BASE	6
	53	VYH3543-002	SPACER		1
	54	VYH2237-001	3D COVER (F)		1
	55	VYH2238-001	3D COVER (R)		1
	56	VYSR1R5-018	SPACER		1
	58	SBSF3010Z	SCREW		2
	60	VYH3540-003	TRANS BRACKET		1
	61	VKZ3001-004	SPECIAL SCREW	BKT+TRANS	2
	62	VYH7080-001	SHEELD		1
	63	SDST3006Z	SCREW		1
	65	VYH3536-001	BATTERY HOLDER		1
	66	SBSF3010Z	SCREW		3
	67	VYH1188-001	CHASSIS		1
	68	SDSF3016M	SCREW	FRONT	2
	69	SBSF3012Z	SCREW	CHASSIS+PWB	7
	70	SBSF3012Z	SCREW	CHASSIS+3D	4

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	71	VXP4647-005	3D BUTTON		1
	72	VXP4647-006	POWER BUTTON		1
	73	VYH5483-001	BATTERY SPRING		1
	74	VJC1824-002	REAR CABINET	PC-V88E	1
	74	VJC1824-003	REAR CABINET	PC-V88 B/G	1
	75	VJC2016-008	BATTERY COVER		1
	76	VYH5657-001	BATTERY SPRING		1
	77	VJA3006-00E	ROD ANTENNA		1
	78	VYH5012-004	TERMINAL LUG		1
	79	SDSP3010N	SCREW		1
	80	VJH4092-00K	HANDLE ASS'Y		1
	81	VYN7045-002	NAME PLATE	PC-V88E	1
	81	VYN7045-003	NAME PLATE	PC-V88 B	1
	81	VYN7045-005	NAME PLATE	PC-V88 G	1
	82	VND4334-002	DOLBY LABEL		1
	83	SSSF3012M	T. SCREW	FRONT+REAR	2
	84	SBSF3014Z	SCREW		6
	85	SBSF3040Z	SCREW		3
	86	VXL4342-001	VOLUME KNOB		1
	87	VXS4328-001	SLIDE KNOB		1
	88	VXS4329-001	SLIDE KNOB		2
	89	GBSF3020Z	SCREW		2
	90	VKZ4001-011	WIRE HOLDER		1
	91	SDST2605Z	SCREW		1
	92	E65923-001	T.SCREW		1
	93	VYSS201-006	SPACER		1
	94	VYH7083-001	PCB.HOLDER		1
	95	SDST3006Z	SCREW		1
	96	VYSH102-056	SPACER		1
	97	VYH7085-001	HANDLE SUPPORT		2
	98	SBSF3016Z	SCREW		2
	99	SBSF3010Z	SCREW		1
⚠	T999	VTP57P2-12F	POWER TRANS		1
	103	VYH7086-001	STOPPER		1
	104	SDST2006Z	SCREW		1
	105	SSST3008M	SCREW	FRONT+RADI.	1
	106	WLS3000Z	WASHER		4
	107	WNS3000N	WASHER		4
	108	VKZ4001-011	WIRE HOLDER	TUNER WIRE	1
	109	VYH7082-001	BARRIER		1
	110	VYH7014-001	AC SLIDER		1
	111	V44814-00B	TERMINAL ASS'Y	PC-V88E	2

■ Assembly Parts No. for Service Parts

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1,5,6,7,23 }	ZCPRV88B-FBK	FRONT CABINET ASS'Y	B VERSION	1
	8,39,41,42 }	ZCPRV88E-FBK	FRONT CABINET ASS'Y	E VERSION	1
		ZCPRV88G-FBK	FRONT CABINET ASS'Y	G VERSION	1
	9,17	ZCPRV88K-CH-A	CASSETTE HOLDER ASS'Y	DECK A	1
	11,17	ZCPRV88K-CH-B	CASSETTE HOLDER ASS'Y	DECK B	1
	10,13	ZCPRV88K-CLBKA	CASSETTE LID ASS'Y	DECK A	1
	12,13	ZCPRV88K-CLBKB	CASSETTE LID ASS'Y	DECK B	1

■ **Speaker Box Section**

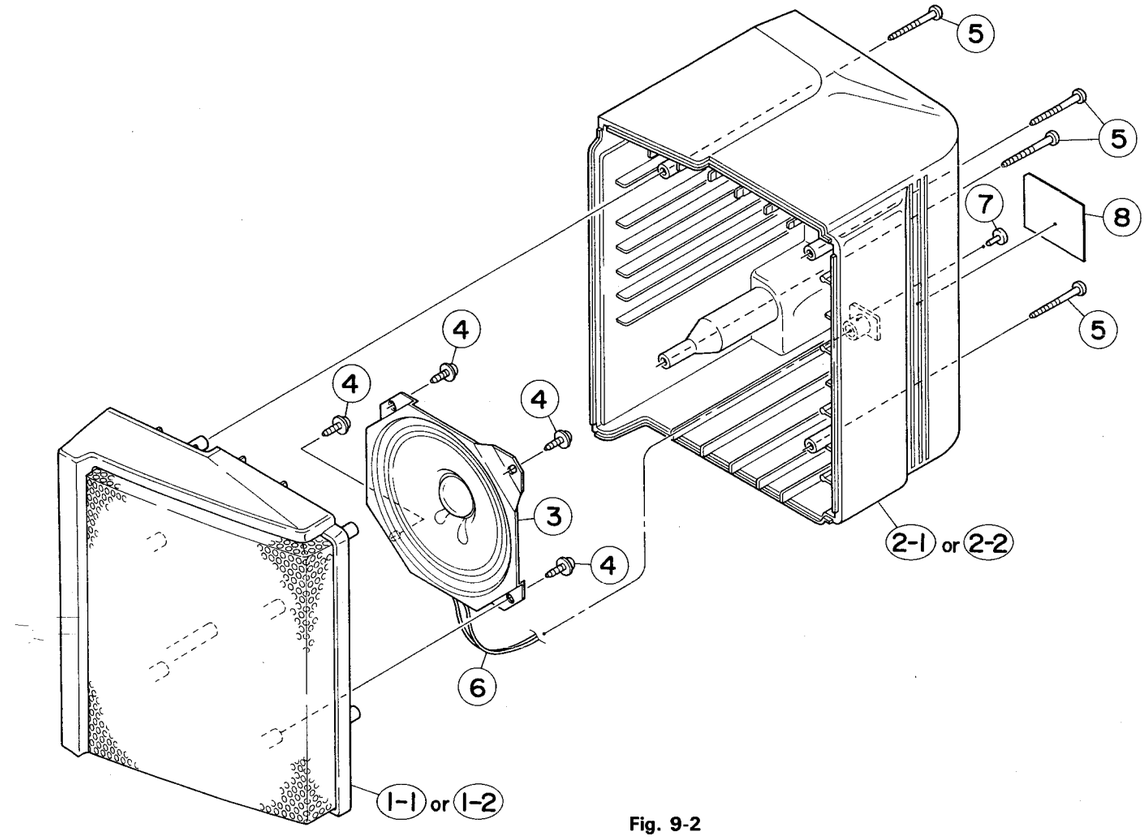


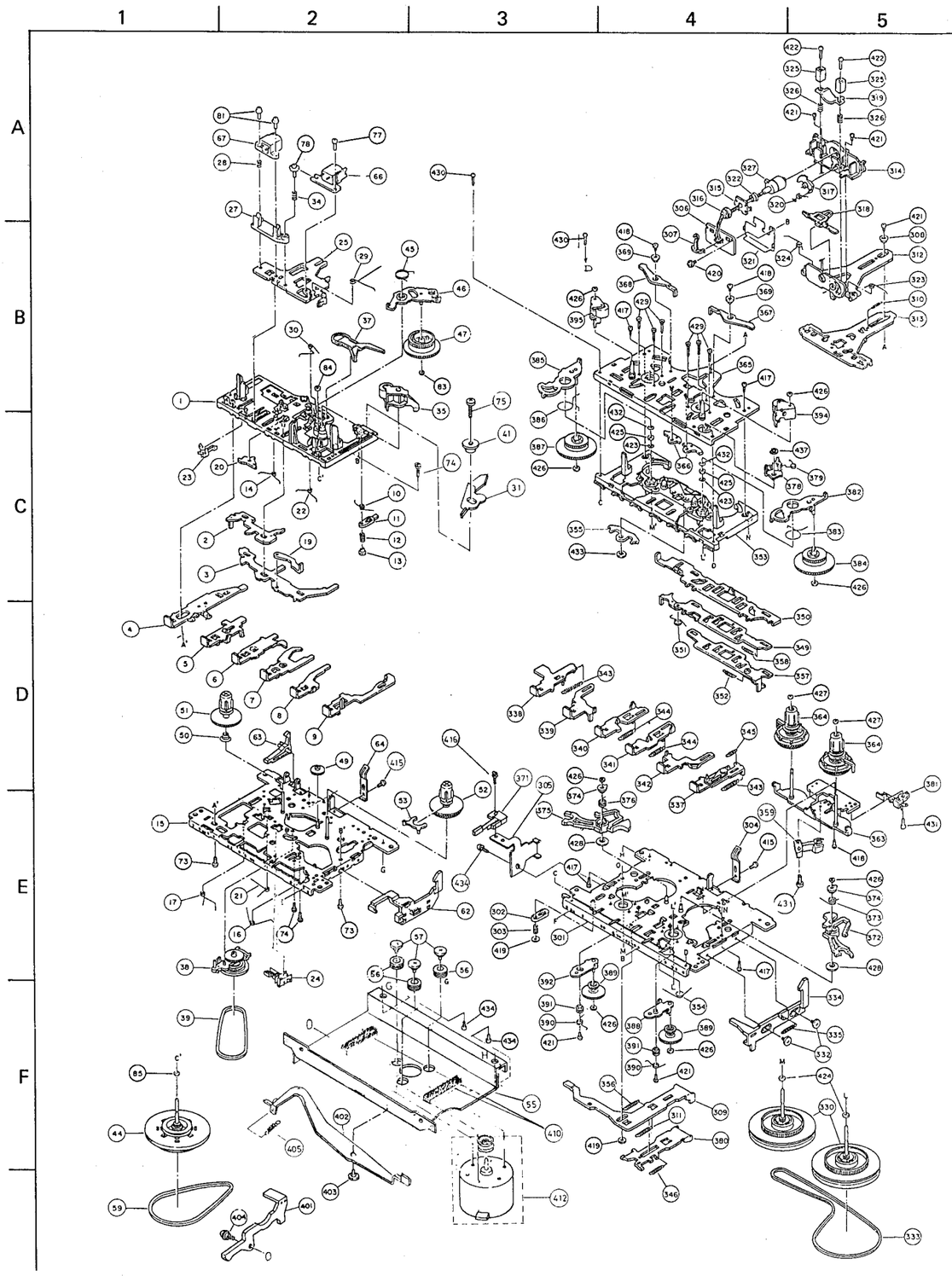
Fig. 9-2

• **Speaker Box Section Parts List**

⚠ parts are safety assurnace parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1-1	VJC2375-00A	FRONT PANEL (R)	RIGHT SIDE	1
	1-2	VJC2374-00A	FRONT PANEL (L)	LEFT SIDE	1
	2-1	VJC1833-001	REAR CABINET	RIGHT SIDE	1
	2-2	VJC1831-001	REAR CABINET	LEFT SIDE	1
	3	EAS10P463C	SPEAKER		1
	4	GBSF3010Z	TAPPING SCREW	FRONT + SPEAKER	4
	5	SBSF3040Z	SCREW	FRONT + REAR	4
	6	VMP0040-001T	SPEAKER CORD		1
	7	TEP357469-02	STOPPER		1
	8	VYN7045-001B	NAME PLATE		1

10 Exploded View of Mechanism Assembly



• Mechanism Assembly Parts List

⚠ parts are safety assurnace parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	192114301T	BASE ASS'Y		1
	2	19211409T	SWITCH PLATE		1
	3	19211408T	LOCK CAM		1
	4	19211422T	BUTTON LEVER	REC	1
	5	19211423T	BUTTON LEVER	PLAY	1
	6	19211424T	BUTTON LEVER	REW	1
	7	19211425T	BUTTON LEVER	FF	1
	8	19211426T	BUTTON LEVER	STOP	1
	9	19211427T	BUTTON LEVER	PAUSE	1
	10	19211413T	TORSION SPRING	P CONTROL	1
	11	19211410T	PAUSE LEVER		1
	12	19211412T	SPRING		1
	13	19211411T	PAUSE STOPPER		1
	14	19211414T	TORSION SPRING	BUTTON LEVER	1
	15	192101501T	CHASSIS ASS'Y		1
	16	19211416T	TORSION SPRING	E ACTUATOR	1
	17	19211417T	TORSION SPRING	P.S.LEVER	1
	19	182101159T	E.KICK LEVER		1
	20	19211420T	STTOPPER	PR	1
	21	18211421T	SPRING	REC BUTTON LEVER	1
	22	19211415T	TORSION SPRING	BUTTON LEVER	1
	23	640101149T	LEAF SWITCH	MSW-1541T	1
	24	640101161T	LEAF SWITCH	MSW-1720MUDO	1
	25	19210302T	HEAD PANEL		1
	27	19210306T	HEAD BASE		1
	28	18210308T	SPRING		1
	29	19210303T	TENSION SPRING	PANEL	1
	30	19211418T	TORSION SPRING	M CONTROL	1
	31	19211434T	P.ROLLER ARM		1
	34	18210307T	AZIMUTH SPRING		1
	35	192104301T	P.ROLLER ASS'Y		1
	37	19212604T	SENSING LEVER		1
	38	192107302T	RF CLUTCH ASS'Y		1
	39	19210703T	REW/F.F. BELT		1
	41	19211437T	P ARM COLLAR		1
	44	192109309T	FLYWHEEL ASS'Y		1
	45	19212605T	TORSION SPRING	GEAR PLATE	1
	46	192126501T	GEAR PLATE ASY.		1
	47	19212602T	CAM GEAR		1
	49	18211070T	F.FORWARD GEAR		1
	50	18211010T	SPRING	BACK TENSION	1
	51	192105304T	SUPPLY REEL ASY		1
	52	192105303T	TAKEUP REEL ASY		1
	53	19210506T	SENSER		1
	55	18511436T	MOTOR BRACKET		1
	56	18201306T	RUBBER CUSHION		3
	57	18211202T	COLLAR SCREW		3
	59	182112102T	MAIN BELT		1
	62	19211302T	EJ. SLIDE LEVER		1
	63	18211069T	REC.SAF.LEVER		1
	64	18291006T	PACK SPRING		1
	66	VGH0421-020	R / P HEAD		1
	67	LE15A-C1	E HEAD		1
	73	96790000T	TAPPING SCREW	M2 X 5	2
	74	99991809T	SPECIAL SCREW	M2 X 4.5	3

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	75	99992018T	SPECIAL SCREW	2 X 3.5	1
	77	91150000T	SCREW(M2 X 3)	M2 X 3	1
	78	99220000T	SCREW(M2 X 7)	M2 X 7	1
	80	91780000T	SCREW	M2 X 3	1
	81	92230000T	CAP SCREW	M2 X 7.5	2
	83	94220000T	POLY.CUT WASHER	1.2 X 3.8 X 0.3	1
	84	99990313T	POLY.CUT WASHER	1.45 X 3.8 X 0.3	1
	85	97860000T	POLY WASHER	2 X 3.5 X 0.3	1
	301	185101303T	CHASSIS ASS'Y		1
	302	18210115T	PAUSE LEVER		1
	303	18210116T	LEVER SPRING		1
	304	18291006T	PACK SPRING		1
	305	18510118T	DIR.SW.BRACKET		1
	306	18510106T	H.W.TERM.BOARD		1
	307	18650965T	CODE CLAMPER		1
	308	18510404T	H.P. COLLAR		1
	309	18510408T	RELEASE PLATE		1
	310	18510409T	R.C.PLATE SP.		1
	311	18510411T	R.C.SPRING(M)		1
	312	18510414T	HEAD PANEL		1
	313	18510415T	R.C.PLATE		1
	314	18510439T	HEAD MOUNT		1
	315	18510418T	HOLDER		1
	316	18510444T	PINION GEAR		1
	317	18510420T	H TUR.OVER GEAR		1
	318	18510421T	HEAD SLIDE PLAT		1
	319	18510424T	HEAD SP PLATE		1
	320	18510425T	SPRING	H.TURN OVER	1
	321	18510445T	H.SHIELD PLATE		1
	322	18510427T	H HOLDER SPRING		1
	323	18510428T	P.ROLLER SP(F)		1
	324	18510429T	P.ROLLER SP(R)		1
	325	18510436T	SCREW HOLDER		2
	326	18650259T	AZIMUTH SP (D)		2
	327	62020172T	RP HEAD		1
	330	185112504T	FLYWHEEL ASS'Y		2
	332	18211223T	COLLAR SCREW		2
	333	18511416T	MAIN BELT		1
	334	18511703T	EJ.SLIDE LEVER		1
	335	18511702T	SPRING		1
	337	185102312T	LEVER ASS' Y	PROG BUTTON	1
	338	185102325T	LEVER ASS'Y	MODE BUTTON	1
	339	18510232T	PLAY BUT.LEVER	PLAY	1
	340	18510235T	REW.BUT.LEVER(R		1
	341	18510234T	FF BUT.LEVER(F)		1
	342	18510231T	STOP BUT.LEVER	STOP	1
	343	18510270T	PROG BUT.LEV.SP		2
	344	18510269T	LEVER SPRING	FF/REW BUTTON	2
	345	18510227T	PULL ARM SPRING		1
	346	18511606T	SPRING	FF SWITCH PLATE	1
	349	185102321T	LOCK ACT. ASS'Y		1
	350	18510256T	SLIDE PLATE		1
	351	18510276T	SPRING	LOCK RELEASE	1
	352	18510267T	SPRING	SWITCH ACTUATOR	1

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	353	185102504T	BUT. BASE ASS'Y		1
	354	18510221T	SPRING	STOP BUTTON LEVER	1
	355	18510241T	FF CONTROL ARM		1
	356	18510242T	SPRING(P)	BUTTON LEVER	1
	357	185102322T	SW ACT.ASS'Y		1
	358	18510225T	SPRING	LOCK ACTUATOR	1
	359	64010138T	LEAF SWITCH	MSW-1275	1
	363	185111301T	REEL PLATE ASSY		1
	364	185111501T	REEL ASS'Y		2
	365	185118303T	SUB CHAS. ASS'Y		1
	366	18511810T	RC ARM		2
	367	18511805T	AUTO CONT.ARM(F	AUTO CONTROL	1
	368	18511806T	AUTO CONT.ARM(R	AUTO CONTROL	1
	369	18511807T	CONT.ARM COLLAR		2
	371	64010199T	LEAF SWITCH	MSW-1473NBK	1
	372	18512001T	AUTO LEVER (F)		1
	373	18512003T	A.LEV.(R)SPRING		1
	374	18512005T	SPRING STOPPER		2
	375	18512002T	AUTO LEVER (R)		1
	376	18512004T	A.LEV.(F)SPRING		1
	378	18510303T	TURN OVER ARM		1
	379	18510304T	TURN OV. SPRING		1
	380	18511602T	FF SW PLATE		1
	381	640101151T	LEAF SWITCH	MSW-1290CV	1
	382	185105302T	ARM(F) ASS'Y	T GEAR	1
	383	18510504T	ARM(F) SPRING	T GEAR	1
	384	18510503T	T CAM GEAR (F)		1
	385	185106302T	ARM(R) ASS'Y	T GEAR	1
	386	18510603T	ARM(R) SPRING	T GEAR	1
	387	18510602T	T CAM GEAR (R)		1
	388	185107301T	FF G.ARM(F)ASSY		1
	389	18510703T	FF GEAR		2
	390	18510704T	G.ARM SPRING(F)	FF	2
	391	18510705T	FF G.ARM COLLAR		2
	392	185108301T	FF G.ARM(R)ASSY		1
	394	185109502T	P.ROLLER(F)ASSY		1
	395	185110502T	P.ROLLER(R)ASSY		1
	401	19211209T	P KICK LEVER(B)		1
	402	18511435T	P KICK LEVER(A)		1
	403	18211223T	COLLAR SCREW		1
	404	18211224T	COLLAR SCREW		1
	405	18511404T	SPRING	P KICK LEVER	1
	410	18511437T	MAT		2
	412	185114317T	MOTOR ASS'Y	SHU9L02,53	1
	415	91780000T	SCREW	M2 X 3	2
	416	90770000T	ASS'Y SCREW	M2 X 4	1
	417	96740000T	TAPPING SCREW	M2 X 6	4
	418	96930000T	CAMERA SCREW	M1.7 X 3	3
	419	98760000T	P WASHER	2.1 X 5 X 0.5	2
	420	99992012T	TWO LOCK SCREW	M2 X 4	1
	421	96950000T	CAM.S.TAP SCREW	M1.7 X 4	5
	422	99992036T	SCREW	M2 X 12	2
	423	97860000T	POLY WASHER	2 X 3.5 X 0.3	2
	424	98890000T	P WASHER	2.1 X 3 X 0.3	2

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	425	99990309T	P WASHER	1.45 X 4 X 0.5	2
	426	94210000T	P.WASHER	1.2 X 3 X 0.25	8
	427	99990307T	P WASHER	1.2 X 3.7 X 0.4	2
	428	99990009T	P WASHER	3 X 8.5 X 0.13	2
	429	99991303T	CAM.S.TAP SCREW	M1.7 X 8.5	6
	430	91890000T	TH.TAP SCREW	M2 X 9	2
	431	91810000T	SCREW	M2 X 5	2
	432	99990013T	P WASHER	1.75 X 4 X 0.3	2
	433	99990016T	P WASHER	2.8 X 6 X 0.5	1
	434	91800000T	SCREW	M2 X 4	3
	437	95020000T	E.RING		1

11 Packing

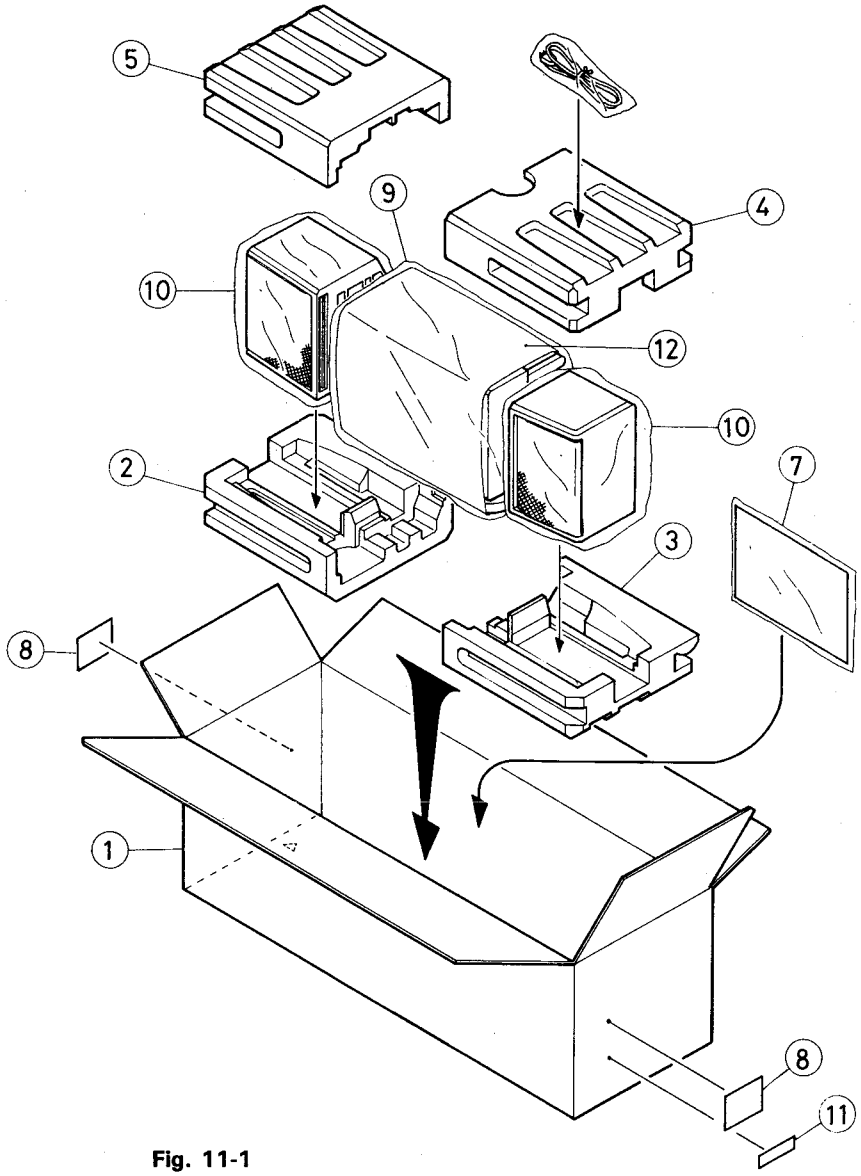


Fig. 11-1

Packing Parts List

⚠ parts are safety assurnace parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VPC7045-001	CARTON		1
	2	VPH1474-001	CUSHION(BOTT,L)		1
	3	VPH1474-002	CUSHION(BOTT,R)		1
	4	VPH1475-001	CUSHION(UP,R)		1
	5	VPH1475-002	CUSHION(UP,L)		1
	7	VPE3005-004	POLY BAG	FOR INSTRUCTIONS	1
	8	VND3044-003	SERIAL TICKET	E VERSION	2
	8	VND3044-004	SERIAL TICKET	B VERSION	1
	8	VND3044-005	SERIAL TICKET	G VERSION	1
	9	VPE3005-026	POLY BAG	UNIT	1
	10	VPE3005-018	POLY BAG	SPEAKER	2
	11	VND4247-001	VOLTAGE LABEL	U VERSION	1
	12	VPK4002-016	SHEET		1

12 Accessories

PARTS NO.	PARTS NAME	DESCRIPTIONS	Q'TY
VNN7045-211	INST. BOOK		1
VNN7045-441	〃	FOR Belgium, Netherland	1
BT20066A	WARRANTY CARD	PC-V88B/E	1
QZL1002-003	WARNING LABEL	PC-V88B/E	1
BT20060	WARRANTY CARD	PC-V88E	1
BT20065A	〃	PC-V88G	1
PU36158	FTZ. INF. SHEET	PC-V88G	1
QMP9017-009BS	POWER CORD	PC-V88B	1
QMP3950-183	〃	PC-V88E/G	1
TJL000420-01	SAFETY GUIDE	PC-V88B	1
E43486-340B	SAFETY INST. SHEET	PC-V88B	1

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION MAEBASHI PLANT 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan

(No. 1773)

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JVC

SERVICE MANUAL

PORTABLE COMPONENT SYSTEM

PC-V88 V/VX

Supplementary

- The PC-V88 V, VX has been added to the PC-V88 B/E/G version.
- The V version is identical to the G version.
- The tuner section and the DTS section of the VX version are different.
- When performing repair, please refer to PC-V88 B/E/G (No. 1773).
  In regard to other parts, please refer to the comparison table of the G version.

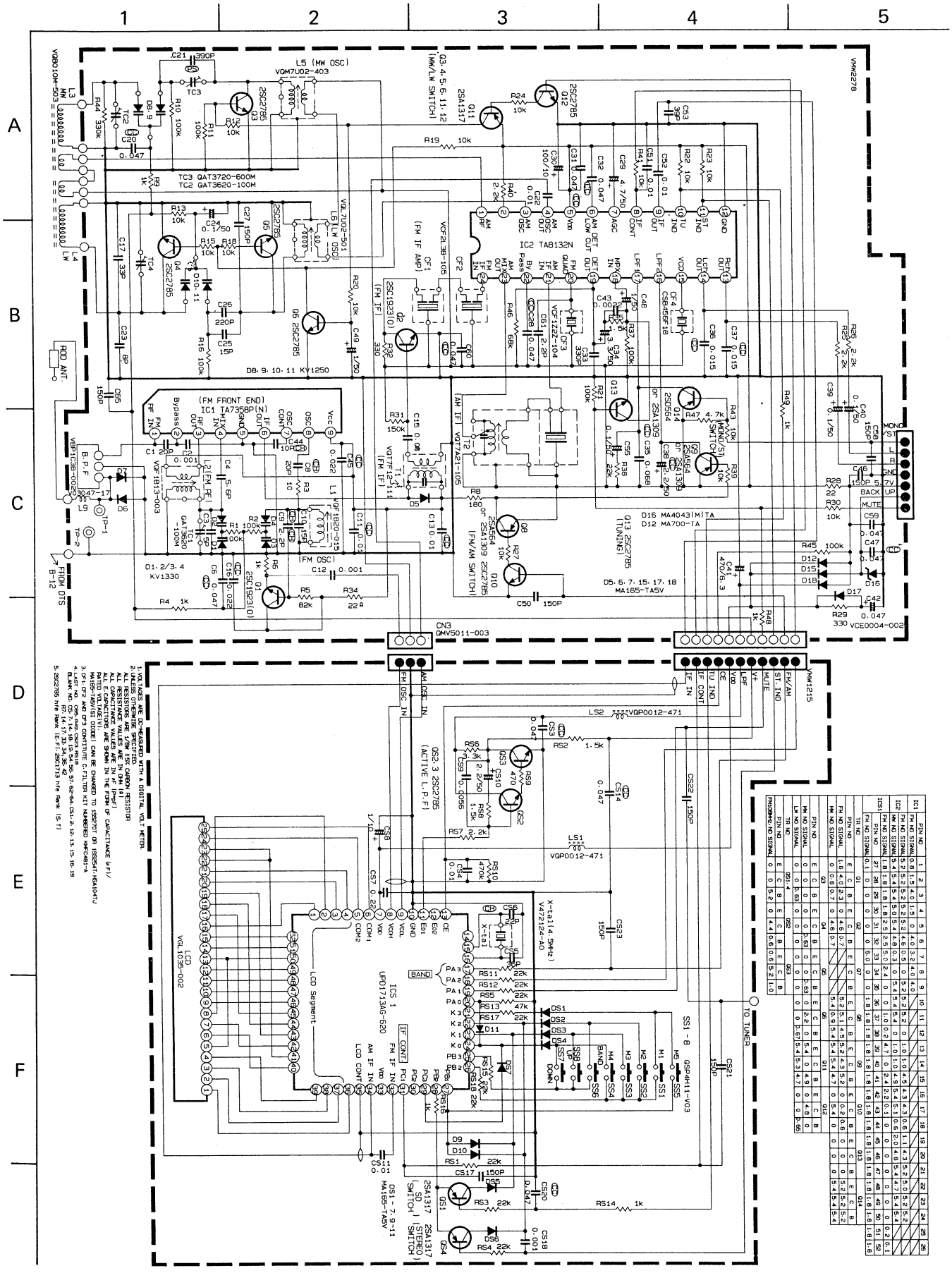
Area Suffix
V/VX ..... Eastern Europe

Comparison Table

Ref. No.	Parts Name	PC-V88 V	PC-V88 VX	PC-V88 G
81	Name Plate	VYN7045-010	VYN7045-009	VYN7045-005
	Inst. Book	VNN7045-901	VNN7045-901	VNN7045-212
	Warranty Card	————	————	BT20114
	〃	————	————	BT20066A
	FTZ Information Sheet	————	————	PU36158
	S. Ticket	VNN3044-010	VND3044-009	VND3044-005
	Cassette Tape	VGT08S3-J01	VGT08S3-J01	————
	Caution Label	VND4320-001	VND4320-001	————

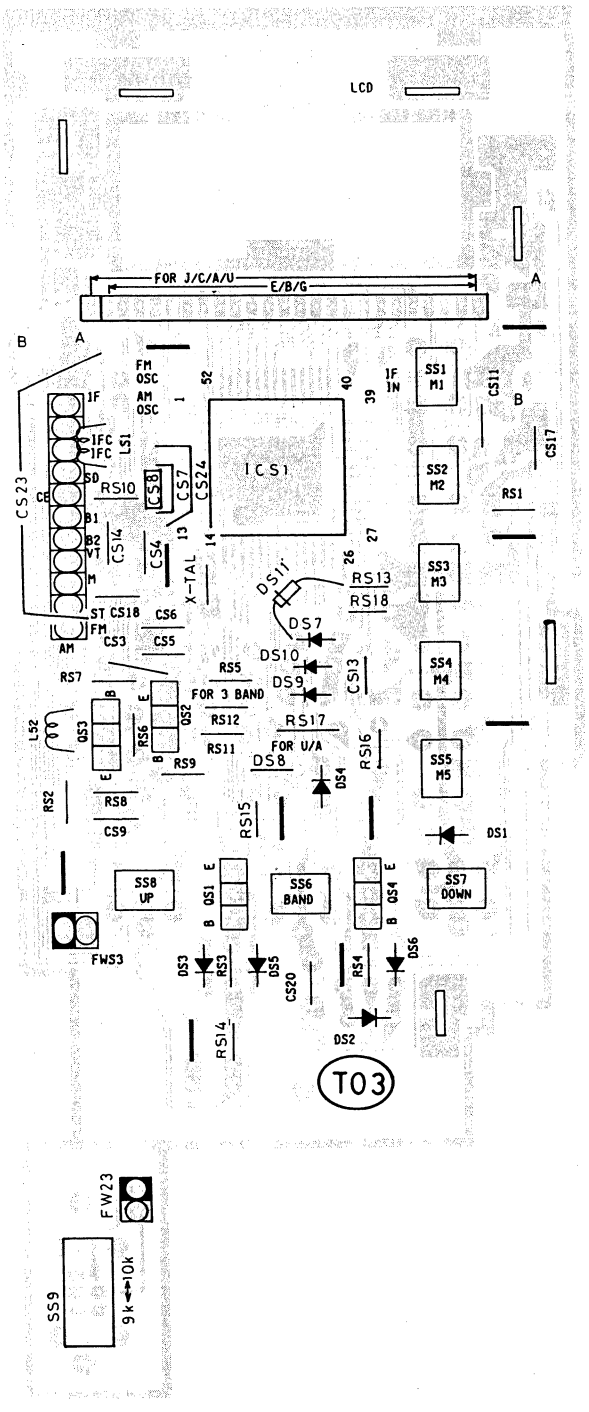
No. 1773C
March 1990

Standard Schematic Diagram <Tuner/DTS Circuit>



Location of P.C. Board Parts and Parts List

■ DTS Board <VX Version>

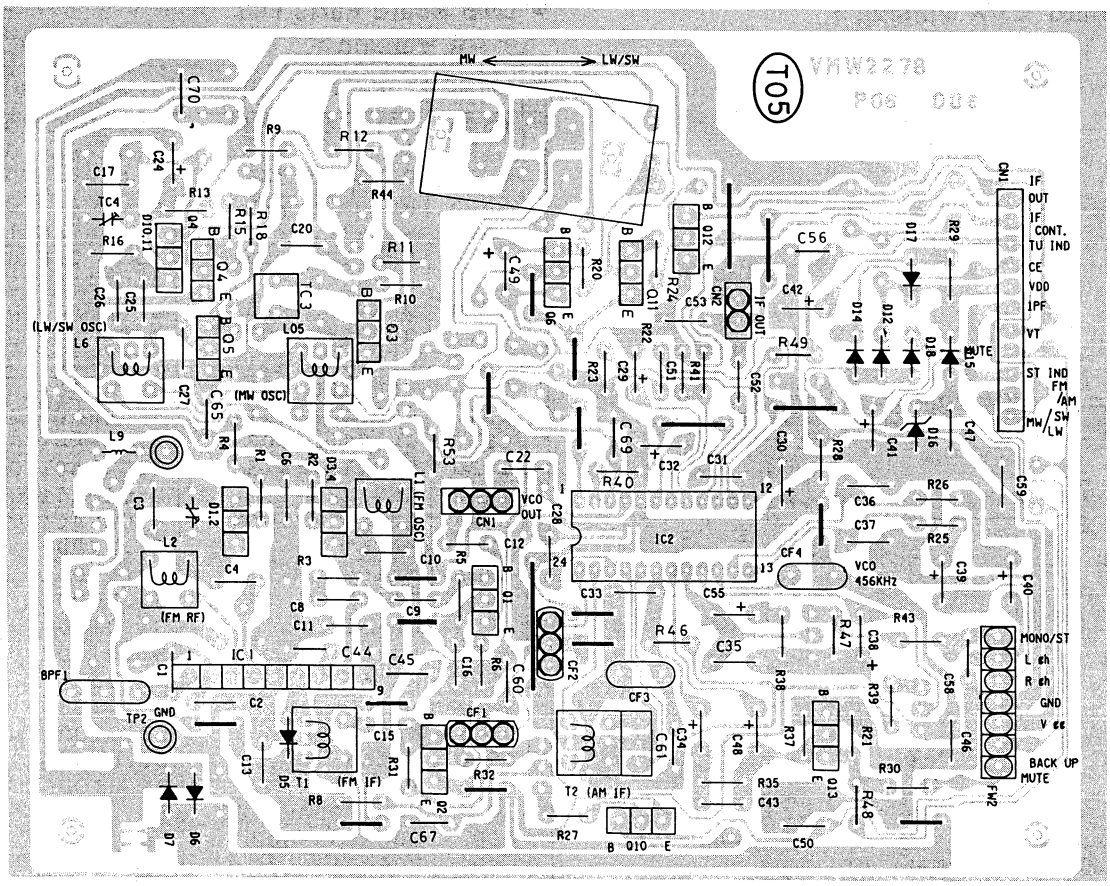


● DTS Board Parts List <VX Version>

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME
	CS03	QCC11EM-473	C.CAPACITOR
	CS04	QCVB1CM-103Y	C.CAPACITOR
	CS05	QCS11HJ-360	C CAPACITOR
	CS06	QCT05CH-220	C CAPACITOR
	CS07	QFV41HJ-224	TF CAPACITOR
	CS08	NEF11AM-105LY	TS E CAPACITOR
	CS09	QCXB1CM-562Y	C CAPACITOR
	CS10	QER41HM-225	E CAPACITOR
	CS11	QCVB1CM-103Y	C.CAPACITOR
	CS13	QCBB1HK-331Y	C.CAPACITOR
	CS14	QCC11EM-473	C.CAPACITOR
	CS17	QCBB1HK-151Y	C.CAPACITOR
	CS18	QCBB1HK-102Y	C.CAPACITOR
	CS20	QCC11EM-473	C.CAPACITOR
	CS23	QCS11HJ-151	C.CAPACITOR
	CS24	QETA1EM-106N	E.CAPACITOR
	DS01	MA165	SI.DIODE
	DS02	MA165	SI.DIODE
	DS03	MA165	SI.DIODE
	DS04	MA165	SI.DIODE
	DS05	MA165	SI.DIODE
	DS06	MA165	SI.DIODE
	DS07	MA165	SI.DIODE
	DS09	MA165	SI.DIODE
	DS10	MA165	SI.DIODE
	DS11	MA165	SI DIODE
	ICS1	UPD1713AG-620	IC
	LCD	VGL1035-002	LCD
	LS01	VQP0012-471	INDUCTOR
	LS02	VQP0012-471	INDUCTOR
	QS02	2SC2785(E,F)-T	TRANSISTOR
	QS03	2SC2785(E,F)-T	TRANSISTOR
	QS04	2SA1309(R,S)TA	TRANSISTOR
	RS01	QRD161J-223	C.RESISTOR
	RS02	QRD161J-152	C.RESISTOR
	RS03	QRD161J-223	C.RESISTOR
	RS04	QRD161J-223	C.RESISTOR
	RS05	QRD161J-223	C.RESISTOR
	RS06	QRD161J-332	C.RESISTOR
	RS07	QRD161J-222	C.RESISTOR
	RS08	QRD161J-152	C.RESISTOR
	RS09	QRD161J-471	C.RESISTOR
	RS10	QRD161J-474	C RESISTOR
	RS11	QRD161J-223	C.RESISTOR
	RS12	QRD161J-223	C.RESISTOR
	RS13	QRD161J-473	C.RESISTOR
	RS14	QRD161J-102	C.RESISTOR
	RS15	QRD161J-223	C.RESISTOR
	RS16	QRD161J-102	C.RESISTOR
	RS17	QRD161J-223	CARBON RESISTOR
	RS18	QRD161J-223	C.RESISTOR
	SS01	QSP4H11-V03	TACT SWITCH
	SS02	QSP4H11-V03	TACT SWITCH
	SS03	QSP4H11-V03	TACT SWITCH
	SS04	QSP4H11-V03	TACT SWITCH
	SS05	QSP4H11-V03	TACT SWITCH
	SS06	QSP4H11-V03	TACT SWITCH
	SS07	QSP4H11-V03	TACT SWITCH
	SS08	QSP4H11-V03	TACT SWITCH
	X	V472124-A0	CRYSTAL
	X-TAL	V472124-A0	CRYSTAL

■ Tuner Board <VX Version>



● Tuner Board Parts List <VX Version>

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME
	BPF	VBP1C3B-002	BP FILTER
	CF04	CSB456F18	CERA LOCK
	CN01	VMC0107-011	CONNECTOR
	CN03	QMV5011-003	CONNECTOR
	C001	QCS11HJ-200	C CAPACITOR
	C002	QCBB1HK-102Y	C.CAPACITOR
	C003	QCS11HJ-5R0	C CAPACITOR
	C004	QCSB1HK-5R6Y	C CAPACITOR
	C006	QCC11EM-103	C.CAPACITOR
	C008	QCT05CH-200	C.CAPACITOR
	C009	QCT30CH-2R2Y	C.CAPACITOR
	C010	QCT05CH-150	C.CAPACITOR
	C011	QCBB1HK-102Y	C.CAPACITOR
	C012	QCBB1HK-102Y	C.CAPACITOR
	C013	QCC11EM-103	C.CAPACITOR
	C015	QCVB1CN-103Y	C.CAPACITOR
	C016	QCC11EM-223	C.CAPACITOR
	C017	QCS11HJ-330	C.CAPACITOR
	C020	QCC11EM-473	C.CAPACITOR
	C021	QFS41HJ-391	P.S.CAPACITOR
	C022	QCF11HP-103	C.CAPACITOR
	C023	QCS11HJ-8R0	C.CAPACITOR
	C024	QETC1HM-104ZN	E.CAPACITOR
	C025	QCS11HJ-150	C.CAPACITOR
	C026	QCS11HJ-221	C.CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C027	QCBB1HK-151Y	C.CAPACITOR
	C028	QCC11EM-473	C.CAPACITOR
	C029	QETC1HM-475ZN	E.CAPACITOR
	C030	QETC1AM-107ZN	E.CAPACITOR
	C031	QCC11EM-473	C.CAPACITOR
	C032	QCC11EM-473	C.CAPACITOR
	C033	QCBB1HK-331Y	C.CAPACITOR
	C034	QETC1HM-335ZN	E.CAPACITOR
	C035	QCC11EM-683	C.CAPACITOR
	C036	QCC11EM-153	C.CAPACITOR
	C037	QCC11EM-153	C.CAPACITOR
	C038	QETC1HM-225ZN	E.CAPACITOR
	C039	QETC1HM-104ZN	E.CAPACITOR
	C040	QETC1HM-104ZN	E.CAPACITOR
	C041	QETCOJM-477ZN	E.CAPA.
	C042	VCE0004-002	SUPER CAP.
	C043	QCXB1CM-222Y	C.CAPACITOR
	C044	QCT05CH-100	C.CAPACITOR
	C045	QCC11EM-223	C.CAPACITOR
	C046	QCBB1HK-151Y	C.CAPACITOR
	C047	QCC11EM-473	C.CAPACITOR
	C048	QETC1HM-105ZN	E.CAPACITOR
	C049	QETC1HM-105ZN	E.CAPACITOR
	C050	QCBB1HK-151Y	C.CAPACITOR
	C051	QCVB1CN-103Y	C.CAPACITOR

⚠	REF.	PARTS NO.	PARTS NAME
	C052	QCVB1CN-103Y	C.CAPACITOR
	C053	QCS11HJ-390	C.CAPACITOR
	C055	QETC1HM-104ZN	E.CAPACITOR
	C056	QCBB1HK-151Y	C.CAPACITOR
	C058	QCBB1HK-151Y	C.CAPACITOR
	C059	QCC11EM-473	C.CAPACITOR
	C060	QCC11EM-473	C.CAPACITOR
	C061	QCT30CH-2R2Y	C.CAPACITOR
	C065	QCBB1HK-151Y	C.CAPACITOR
	C067	QCBB1HK-151Y	C.CAPACITOR
	D001	KV1330	VARI CAP
	D002	KV1330	VARI CAP
	D005	MA165	SI.DIODE
	D006	KV1250	VARI CAP
	D007	MA165	SI.DIODE
	D008	KV1250	VARI CAP
	D009	KV1250	VARI CAP
	D010	KV1250	VARI CAP
	D011	KV1250	VARI CAP
	D012	MA700-TA	ZENER DIODE
	D015	MA165	SI.DIODE
	D016	MA4043(M)TA	Z DIODE
	D017	MA165	SI.DIODE
	D018	MA165	SI.DIODE
	IC01	TA7358P(N)	IC
	IC02	TA8132N	IC
	L001	VQF1B20-015	OSC COIL
	L002	VQF1B13-003	RF COIL
	L003	VQB010B-503	BAR ANTENA
	L004	VQB010B-503	BAR ANTENA
	L005	VQM7U02-403	OSC COIL(MW)
	L006	VQL7U02-501	OSC COIL(LW)
	L009	V03047-17	COIL
	Q001	2SC1923(O)E2	TRANSISTOR
	Q002	2SC1923(O)E2	TRANSISTOR
	Q003	2SC2785(E,F)-T	TRANSISTOR
	Q004	2SC2785(E,F)-T	TRANSISTOR
	Q005	2SC2785(E,F)-T	TRANSISTOR
	Q006	2SC2785(E,F)-T	TRANSISTOR
	Q008	2SA1309(R,S)TA	TRANSISTOR
	Q009	2SA1309(R,S)TA	TRANSISTOR
	Q010	2SC2785(E,F)-T	TRANSISTOR
	Q011	2SA1317(S,T)AC	TRANSISTOR
	Q012	2SC2785(E,F)-T	TRANSISTOR
	Q013	2SC2785(E,F)-T	TRANSISTOR
	Q014	2SA1309(R,S)TA	TRANSISTOR
	R001	QRD161J-104	C.RESISTOR
	R002	QRD161J-473	C.RESISTOR
	R003	QRD161J-100	C RESISTOR
	R004	QRD161J-102	C.RESISTOR

⚠	REF.	PARTS NO.	PARTS NAME
	R005	QRD161J-823	C RESISTOR
	R006	QRD161J-102	C.RESISTOR
	R008	QRD161J-181	C RESISTOR
	R009	QRD161J-102	C.RESISTOR
	R010	QRD161J-104	C.RESISTOR
	R011	QRD161J-104	C.RESISTOR
	R012	QRD161J-103	C.RESISTOR
	R013	QRD161J-103	C.RESISTOR
	R015	QRD161J-103	C.RESISTOR
	R016	QRD161J-104	C.RESISTOR
	R018	QRD161J-103	C.RESISTOR
	R019	QRD161J-103	C.RESISTOR
	R020	QRD161J-103	C.RESISTOR
	R021	QRD161J-104	C.RESISTOR
	R022	QRD161J-103	C.RESISTOR
	R023	QRD161J-103	C.RESISTOR
	R024	QRD161J-103	C.RESISTOR
	R025	QRD161J-222	C.RESISTOR
	R026	QRD161J-222	C.RESISTOR
	R027	QRD161J-103	C.RESISTOR
	R028	QRD149J-220S	CARBON RESISTOR
	R029	QRD161J-331	C.RESISTOR
	R030	QRD161J-103	C.RESISTOR
	R031	QRD161J-154	C RESISTOR
	R032	QRD161J-331	C.RESISTOR
	R035	QRD161J-152	C.RESISTOR
	R037	QRD161J-104	C.RESISTOR
	R038	QRD161J-223	C.RESISTOR
	R039	QRD161J-103	C.RESISTOR
	R040	QRD161J-222	C.RESISTOR
	R041	QRD161J-103	C.RESISTOR
	R043	QRD161J-103	C.RESISTOR
	R044	QRD161J-334	C.RESISTOR
	R045	QRD161J-104	C.RESISTOR
	R046	QRD161J-683	C.RESISTOR
	R047	QRD161J-472	C.RESISTOR
	R048	QRD161J-102	C.RESISTOR
	R049	QRD161J-102	C.RESISTOR
	TC01	QAT3620-100M	T CAPACITOR
	TC02	QAT3620-100M	T CAPACITOR
	TC03	QAT3620-100M	T CAPACITOR
	TC04	QAT3620-200M	T.CAPACITOR
	T001	VQT7F12-111	IFT
	T002	VQT7A21-105	IFT
	CF01	VCF2L3B-105	C. FILTER
	CF02	VCF2L3B-105	C. FILTER
	CF03	VCF1Z2Z-104	C. FILTER

■ FM Tracking Adjustment (VX Version)

	Band Select Switch Position		Frequency of SSG	Preset Memory No.	Aligning Position
1	FM	Dummy Antenna 75 Ω Unbalanced	64.0 MHz	M1	L1
2			Adjust L1 until the voltage of TP9 becomes 1.1 V±0.02 V		
3			65.0 MHz	to be received 65 MHz (M4)	L2
4			73 MHz	to be received 73 MHz (M5)	TC-2
5			Adjust the above position (L2 & TC-2) repeatedly so that the tune can be obtained the best sensitivity.		

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